

Cyber Suite | HACKATHON26

GEIGER

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Geiger Toolbox: A Cybersecurity Awareness & Preparedness Tool

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COMMUNICATION FROM THE COMMISSION TO THE EUROPEAN
PARLIAMENT, THE COUNCIL, THE EUROPEAN ECONOMIC AND SOCIAL
COMMITTEE AND THE COMMITTEE OF THE REGIONS

An SME Strategy for a sustainable and digital Europe

1. Introduction

Europe's 25 million small and medium enterprises (SMEs) are the backbone of the EU economy. They employ around 100 million people, account for more than half of Europe's GDP and play a key role in adding value in every sector of the economy. SMEs bring innovative solutions to challenges like climate change, resource efficiency and social cohesion and help spread this innovation throughout Europe's regions. They are therefore central to the EU's twin transitions to a sustainable and digital economy. They are essential to Europe's competitiveness and prosperity, economic and technological sovereignty, and resilience to external shocks. As such, they are a core part of the achievement of the EU's industrial strategy.

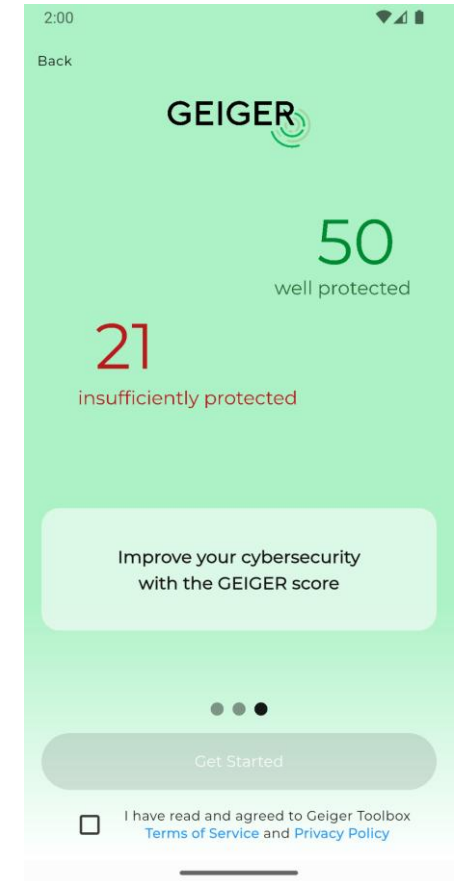
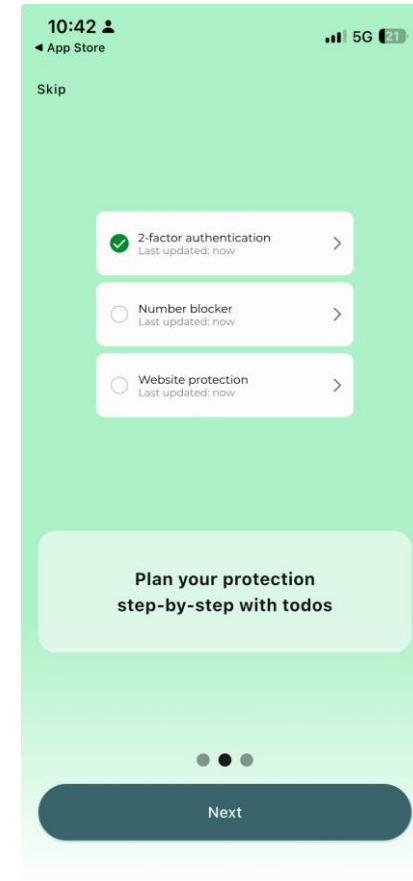
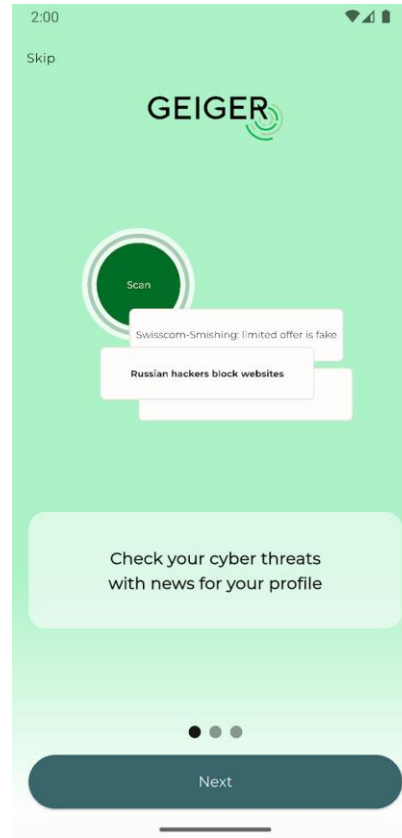
Micro and Small Enterprises (MSEs) represent 98.9% of the European enterprises.

They are not sufficiently protected against negligent behaviour and malicious attacks.

- 68% of small businesses experienced a breach or attack.
- 56% of breaches were not discovered within a suitable time.
- 60% of severely hacked businesses closed within six months.
- Average cost of cybersecurity: 12'456€ for a small business per year.

GEIGER App

- *cybersecurity tool that fits in an MSE owner's pocket*
- allows SME end-users without ICT expertise to determine cyber threat exposure, and stepwise improve the cybersecurity of their SME.



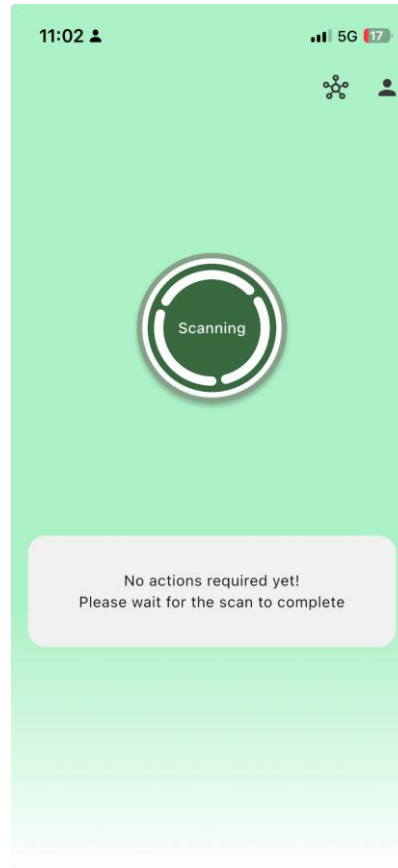
SME Cybersecurity Classes	Cybersecurity Improvement Needs
Abandoned SMEs	CS motivation, knowledge, connection and IT knowledge
Unskilled SMEs	CS training, guidance, connection
Expert-connected SMEs	CS connection
Capable SMEs	CS news, evolution
Provider SMEs	CS news, evolution

Source: Alireza Shojaifar and Heini Järvinen. 2021. *Classifying SMEs for Approaching Cybersecurity Competence and Awareness*. In *The 16th International Conference on Availability, Reliability and Security (ARES 2021)*, August 17–20, 2021, Vienna, Austria. ACM, New York, NY, USA, 7 pages.
<https://doi.org/10.1145/3465481.3469200>

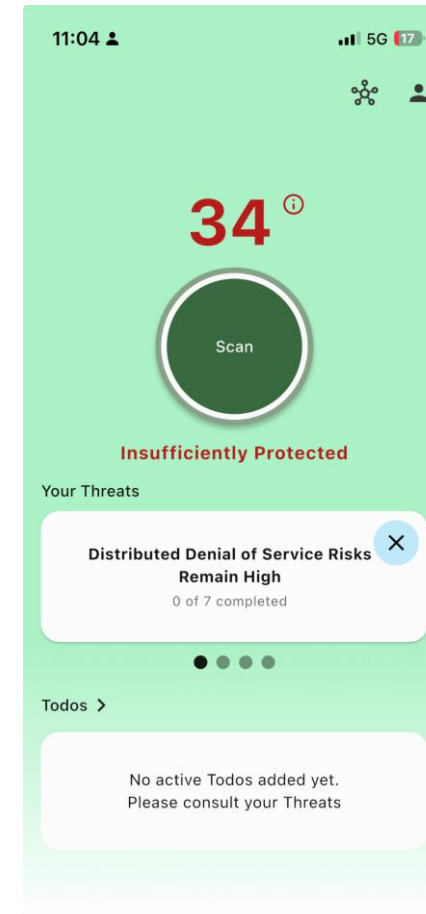
What GEIGER Does

Awareness

Scan your company profile
against live threat intel.



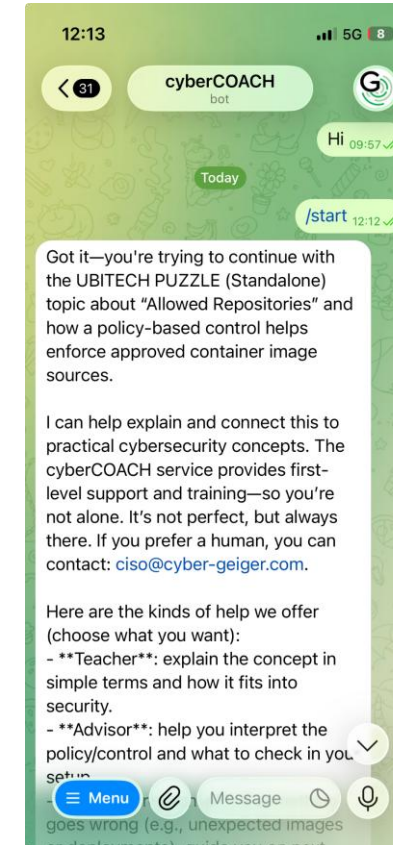
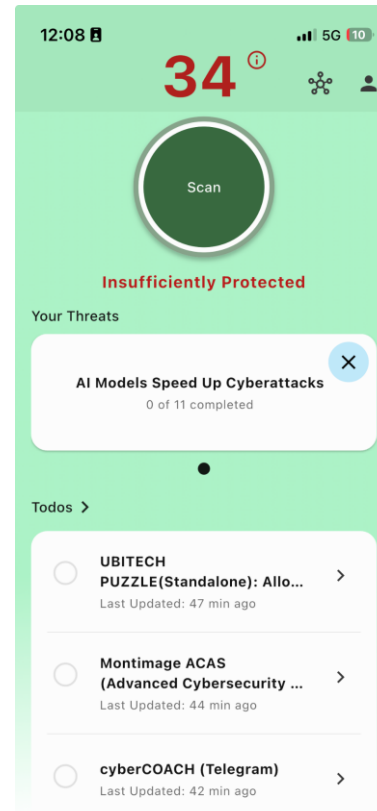
GEIGER Score — one number,
like a credit score, but for cyber
hygiene.



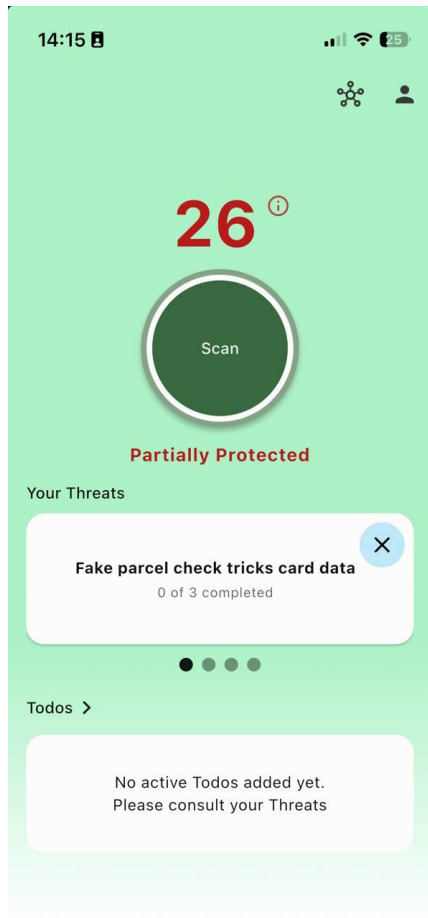
Plan: the score becomes a ranked, bite-sized to-do list, not a 40-page policy document

Coach: the GEIGER cyberCOACH conversational agent walks you through *both* your to-dos and a live incident, in plain language, no jargon.

Preparedness



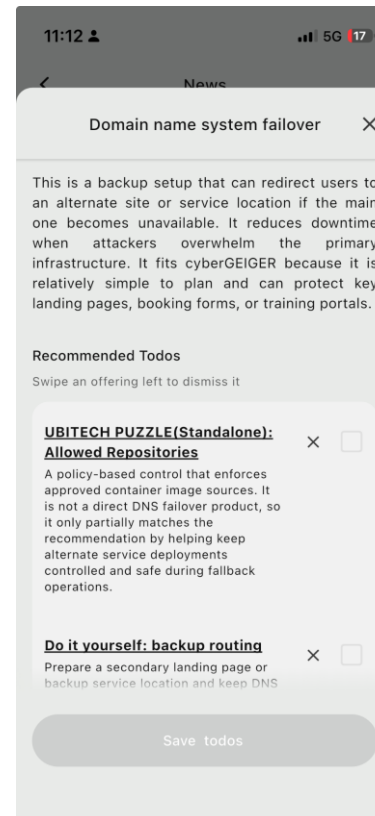
Score



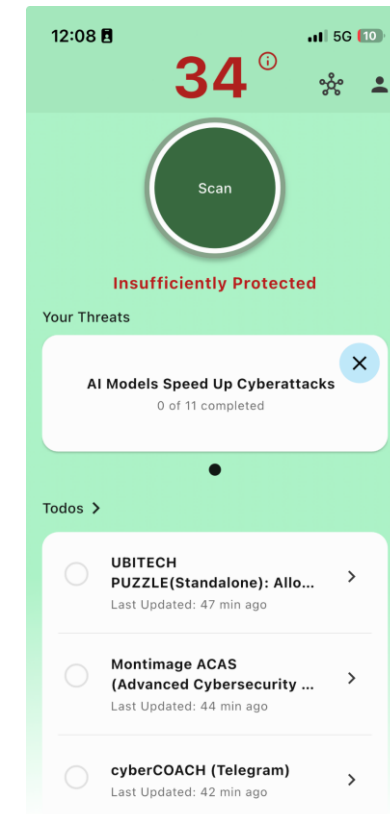
News



Recommendations (offerings)



Todos



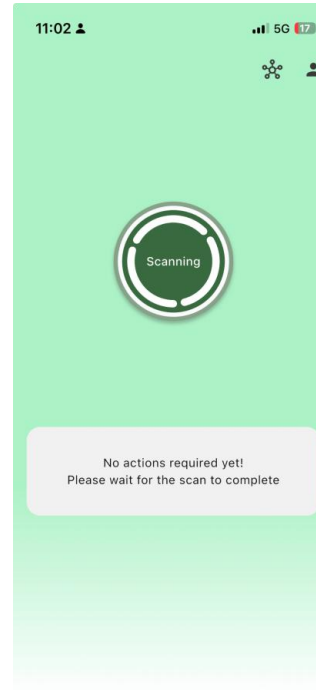
Scan the QrCode to download the App from either play store or App store



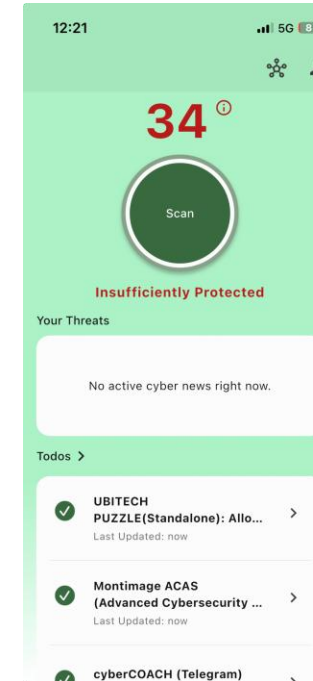
Create your company account

A screenshot of the 'User Profile' screen in the app. It shows a form to create a company profile with fields for 'Company Name' and 'Company Location', both with a 0/50 character limit. There is a 'Generate Company Description' button at the bottom. The status bar at the top shows the time as 10:44 and 5G connectivity. The bottom of the screen shows 'Geiger Toolbox Version: 1.1.1 (48)'.

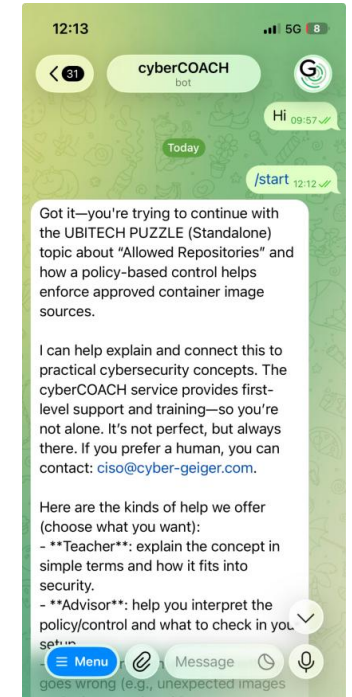
Scan



Plan



Conversational Agent support



Challenge A — Awareness & Planning

- Install the GEIGER app → create a company profile → run a Scan → get briefed on your top threats → select and plan recommended actions → tap a to-do and hit "**Need help?**" to hand it off to the coach (Telegram or WhatsApp) → let it walk you through actually doing that one action.

Challenge B — Awareness Meets Preparedness

- Back in the app after the coach — mark that to-do (and a couple more, if you have time) as **done** → run **Scan** again → watch your GEIGER Score respond.

Challenge C — Preparedness in Action

- Open the **GEIGER cyberCOACH** directly on either Telegram or whatsapp (no to-do, no handoff code) → report a suspected incident (e.g. share an image or copy the text of an suspected phishing email) as it would happen for real → follow its guided response → see your security posture update as a result.

Challenge D: Identify local threat information sources by researching them.

- Where does the French police and authorities publish threats such as cyber campaigns?

Challenge E: Identify local offerings by researching them

- Who offers interesting cybersecurity trainings products and services in Paris

Challenge F: Identify local companies who could benefit from CG tools?

Challenge G: Test use and validate the adapted CG Toolbox

- Are meaningful news filtered
- Do the improvement recommendations fit the respective news?
- Are the TODOs meaningful?



Give your Feedback

Note: This task will be done in collaboration with the developer

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Thank you for your attention!



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Give your Feedback



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