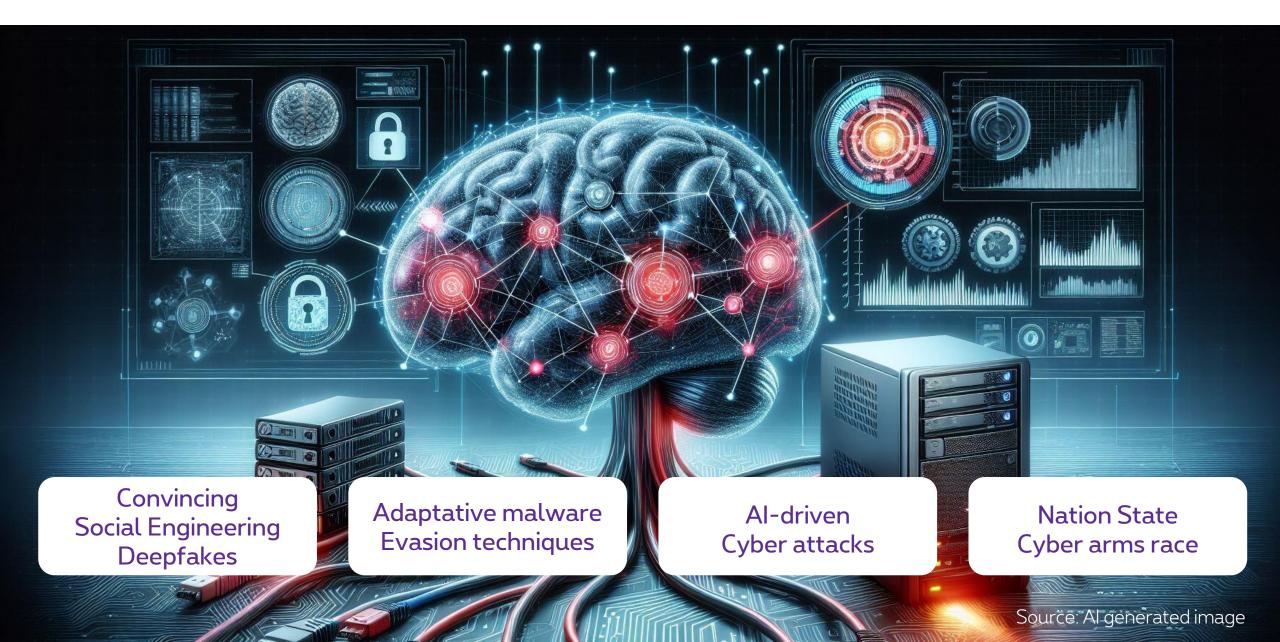


AI, the ultimate cyber threat?



Al, the brain of cyber defence?











Artificial Intelligence Cybersecurity





The center of excellence providing Artificial Intelligence and Cybersecurity solutions to the Proximus Group and Belgian Society

Proximus Ada is named after Ada Lovelace, born in 1815 and considered the world's first computer programmer.





A proximus daughter company

Launched April 1st 2022

AI & CS Talent

At launch: 50

Now: 100

Next year: 130-150

Start-up culture

Guilds Ecosystem Modern Employer Modern Employer

Inter-personal & Technical skills Recognition



1.

Leverage our Artificial Intelligence and Cybersecurity talents and expertise within the broader Proximus Group



3.

Use our digital, AI and cybersecurity competencies to do good for Belgian society



Be recognized as the reference center of excellence in Belgium for these domains, attract local talents and build strong collaborations and partnerships with local universities and research institutes





Our AlxCS vision

1.

We strive to protect our company and customers by detecting and countering the most advanced cyber attacks

2.

We empower our security professionals to focus on the most critical tasks, by automating basic tasks and enhancing efficiency through context-based guidance

3.

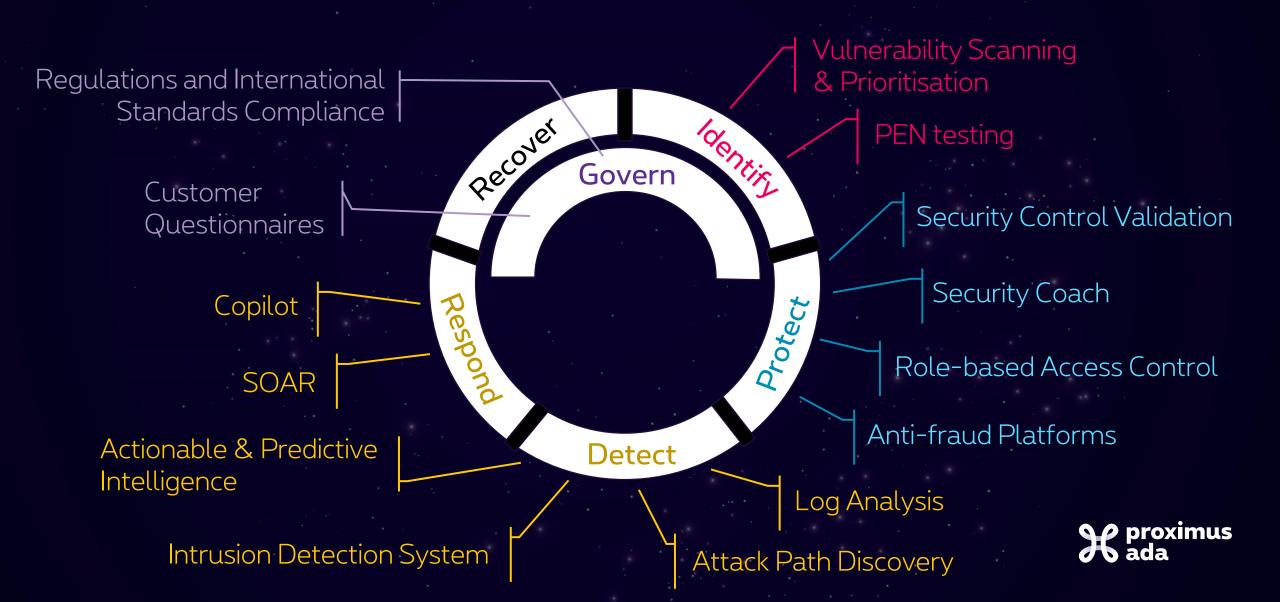
We ensure customer trust by countering fraud, leveraging Al and automation.

4

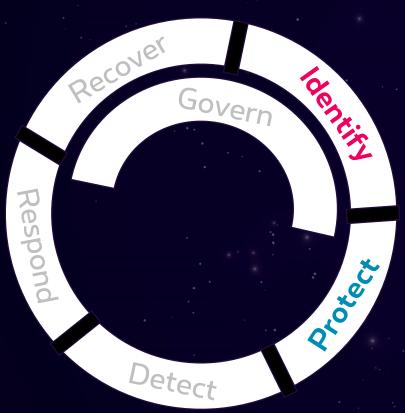
We aim to enhance our compliance by conducting a thorough analysis of the regulations and adhering to international standards



We have identified a set of AlxCS use cases



Identify & Protect



Vulnerability Scanning & Prioritisation

Scan platforms, enrich with context-based information, prioritise vulnerability remediations and create remediation workflows.

PEN testing

Build and execute advanced attack scenarios based on given context, threat landscape and attack techniques.

Security Control Validation

Assess the overall security posture of a system, by correlating the threat, vulnerabilities, and applied security measures.

Security Coach

Provide guidance to security analysts based on internal knowledge base (policies, guidelines, architecture blueprints, etc.)

Role-based Access Control

Define automatically business roles and assign them to end-users.

Detect deviations and ensure maintenance.

Anti-fraud Platforms

Detect & block phishing, malware spread and fraud attempts.



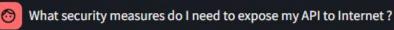


Language

Number of search results used to answer

Chat History

PDP-32.pdf



To expose an API to the internet, the following security measures must be considered:

- A Perimeter Gateway MUST be used when API integrations cross the security zones corresponding to the different network fabrics (i.e. Cumulus fabrics, Telco fabrics, legacy network zones) (PCS-04.01.04.02)
- An API consumer on the Internet accessing an API via a Perimeter Gateway MUST be authenticated using strong authentication, which SHOULD be done using mutual TLS. The Perimeter Gateway accepting connections from the Internet MUST be located in a DMZ (PCS-04.01.04.02)
- When an API provider exposes an API via an API gateway, it MUST NOT accept direct API invocations and ensure all API invocations are coming from the API gateway, for example, using mutual TLS. The API provider MAY delegate authentication and authorization to the API gateway and SHOULD implement further fine-grained access control (PCS-04.01.04.02)
- An API provider MUST authenticate the Perimeter Gateway, which SHOULD be done using mutual TLS. The API provider SHOULD
 perform fine-grained access control based on the information about the actual API consumer provided by the Perimeter Gateway
 (PCS-04.01.04.02)
- All API invocations MUST go over TLS and the caller MUST authenticate the destination endpoint. HTTP connections MUST be rejected
 and not redirected to HTTPS. An API consumer SHOULD use a certificate store with CA certificates explicitly approved by Proximus
 instead of system-wide trust store which contains generally trusted CA certificates. An API consumer MAY pin the API provider endpoint
 certificate or public key, and subsequently not establish connections with endpoints that offer a different certificate or key, even if

Detect & Respond

Provide guidance Automate the assessment, monitoring & remediation.

Automate time-consuming, repetitive, and complicated incident response workflows.

Analyse large set of intelligence sources. Summarize & classify information into MITRE ATT&CK categories.

Monitor network traffic, detect anomalies and suspicious activities.

Collect & format heterogeneous logs into standardized information.
Detect anomalies & suspicious behaviours.

Search across the network, firewalls, servers and end-points to detect potential attack paths.

Copilot

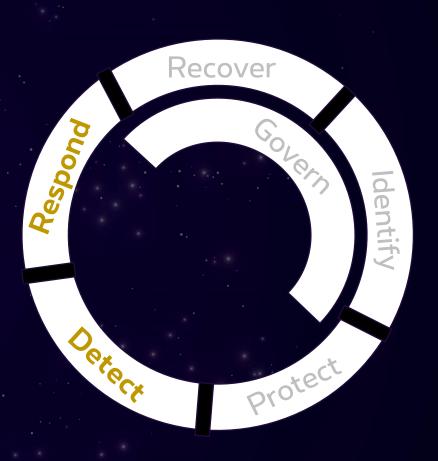
SOAR

Actionable & Predictive Intelligence

Intrusion Detection System

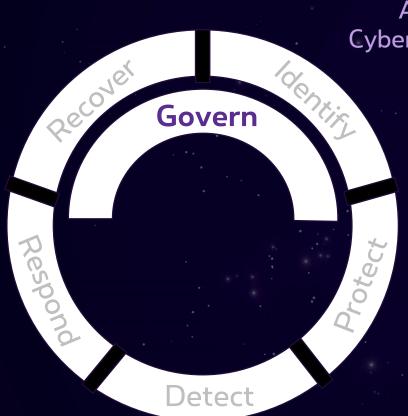
Log Analysis

Attack Path Discovery





Governance



Al-assisted Compliance for Cyber Security Regulations and International Standards Get a comprehensive view on cyber security regulations and standards.

Address a specific requirement across multiple regulations and international standards and map them with Proximus policies.

Provide recommendations and best practices on how to comply.

Generate compliance statements.

Customer questionnaires

Generate answer to customer's questionnaires based on past answers and security knowledge base.



Some take-aways

- Al is a game changer for cyber security, from a threat but also from a defence perspective
- Al will bring value in all aspects of the end-to-end cyber security value chain
- Proximus Ada is uniquely positioned at the intersection of Al and CS
- We started from our vision, and we are now developing the first AlxCS use cases which are very promising



Thank you!



