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AI for Software CE Mark Audit and Certification

Security Reporting & Metrics – Product Security and Third-Party Software Supply Chain

PROUD MEMBER OF CYBER|IRELAND 2024 - 2025

ECSO EUROPEAN CYBER SECURITY ORGANISATION

WOMEN 4CYBER EUROPEAN CYBER SECURITY ORGANISATION

Enterprise Ireland

LES MAISONS DU QUANTIQUE STATION F

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THE PROBLEM

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TRADITIONAL HUMAN COMPLIANCE BRAKES CYBER RESILIENCE

What's wrong with CRA and NIS2?

- **£3 bn lost annually** to manual audit labor [1]
- **40 % false positives**, ~ £500m p/a zero-day vulnerabilities [2]
- **Redundant audit overlaps** slow time-to-market by 30 % [3]

Why it matters to CISO / CXO?

- **60 % burnout** in security ~£100 k cost per engineer [4]
- **Regulatory complexity**, fines ~£2 m per breach [5]
- **Reputational risk** erode valuations up to 15 % [6]

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SOLUTION

Protostars Security-Language Model Assistance

Product Security and Third Party Software Supply Chain Controls Tests

SLM 1: LISTEN

Goal-driven NLP chunks and tags code and documentation for scalability, while reacting to CI/CD and call transcript summaries.

SLM 2 : LOOK

Utility AI ingests filtered data, maps evidence and code-level controls to security frameworks then substantiates findings to qualify compliance.

SLM 3 : LEARN

Reasoning AI delivers real-time gap analysis, to auto-generate audit reports, policy and code remediation to reach continuous compliance.

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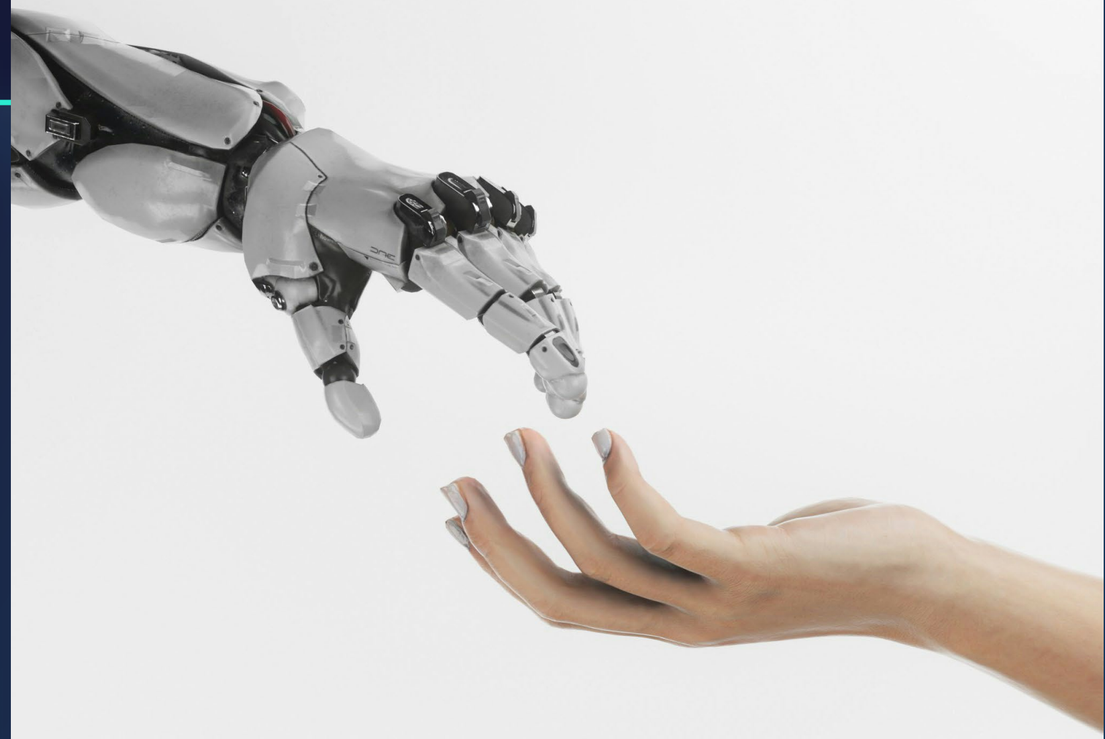

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USE CASE

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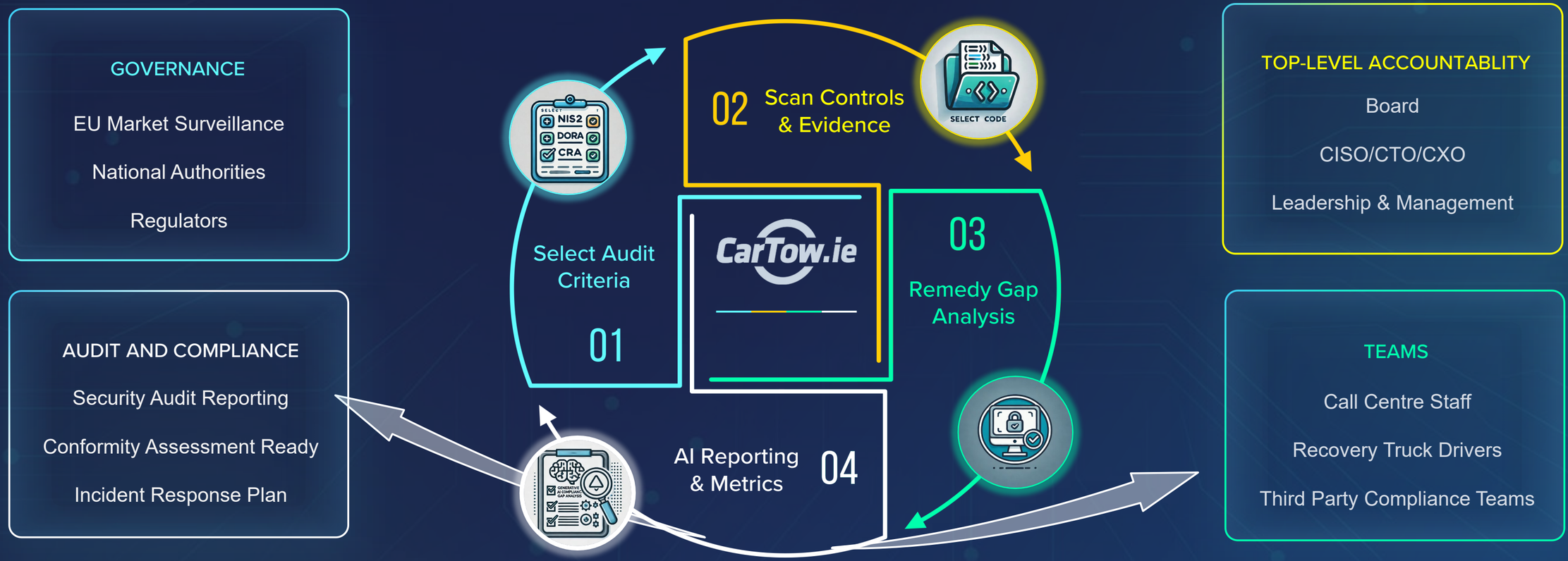
CLIENT: CarTow.ie Call Centre at Dublin Airport (Digital Platform Provider and Supplier)

CHALLENGE: Validate CRA Software CE and maintain NIS2 Third party supplier compliance

SOLUTION: Protostars automates reporting integrated with secure code analysis and cloud security

RESULT: Reduced time to insight by 60% remediation supported by real-time gap analysis



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KEY CLIENTS & DEVELOPMENT

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Protostars Customer & Product Development Strategy

Early customers to become a Notified Body for Software CE Marking Certifications

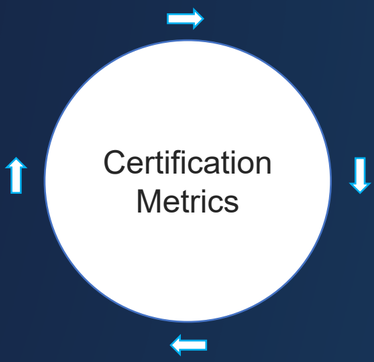
c-risk

CarTow.ie

CHS

PANACEA

LONDON GATWICK



COMMERCIAL-DRIVEN CASE STUDIES & PROGRAMMES

Q2 2023

ESTABLISHED
TRL1-2

Q3 2024

LEADERSHIP
TRL2-3

Q1 2025

CUSTOMER DEVELOPMENT
TRL4-5

Q3 2025

AI ACCELERATOR
TRL6-7

Q1 2026

EU DEP EXPANSION
TRL8-9

EY Building a better working world

epam

NSAI

ADDLESHAW GODDARD

THALES

NCSC

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CERTIFICATION & STANDARDS

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STAFF: CISSP, ISO27001 LEAD AUDITOR

Compliance Mappings to:

- EU Cyber Resilience Act, EU AI Act
- NIST-800-53
- ISO27001 in process
- ISO42001 AI Management Systems in process
- Applying for EU Cybersecurity Certification and Notified Body

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DATA RESIDENCY, SOVERIENTY & SECURITY

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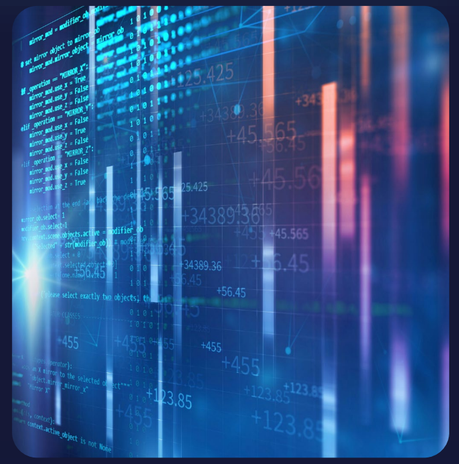
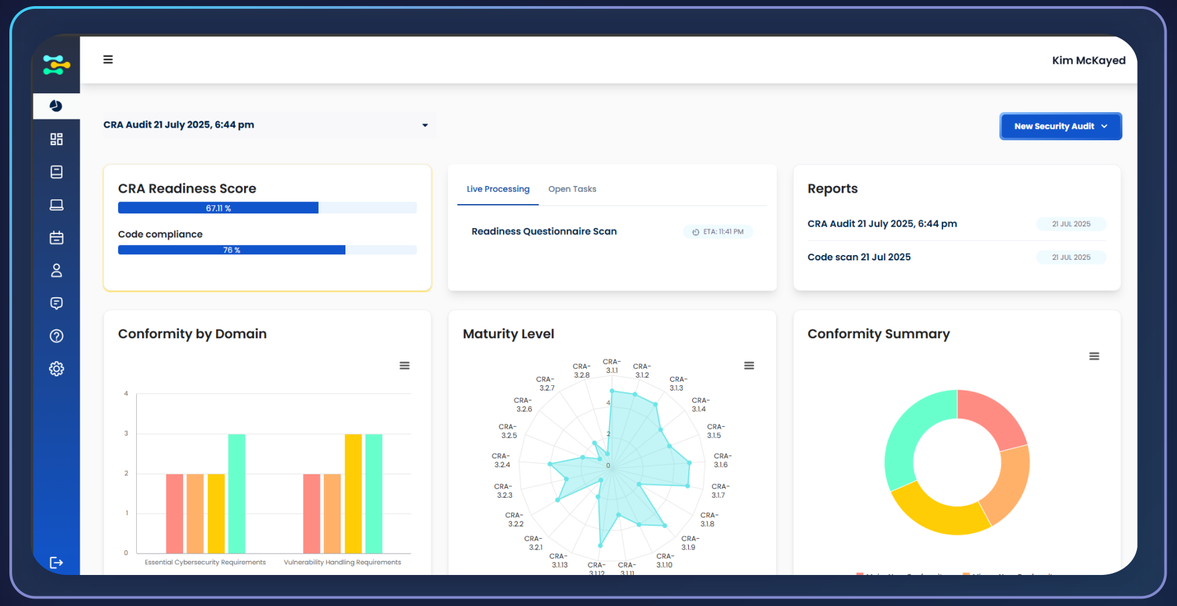


EU HOSTED INFRASTRUCTURE (IRELAND-BASED)

1. **Microsoft Azure: Zero-Trust Zero-Knowledge Architecture**
2. **OVHcloud:** Startup Program for Quantum-Software CE research
3. **Encryption:** Data at rest and data in transit
4. **Role-based Access Control:** Security audit logs
5. **Data Loss Prevention:** referrals until Protostars gain Notified Body status



SECURITY PRACTICES

- **Secure Code Analysis:** OWASP AppSec and Gen AI
- **Secure Software Development Lifecyle:** CI/CD pipelines
- **False Positive Reduction:** AI statistical analysis
- **Penetration Testing:** Independent third party
- **Internal Standard Alignment:** ISO27001 practices

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INTEGRATION POTENTIAL

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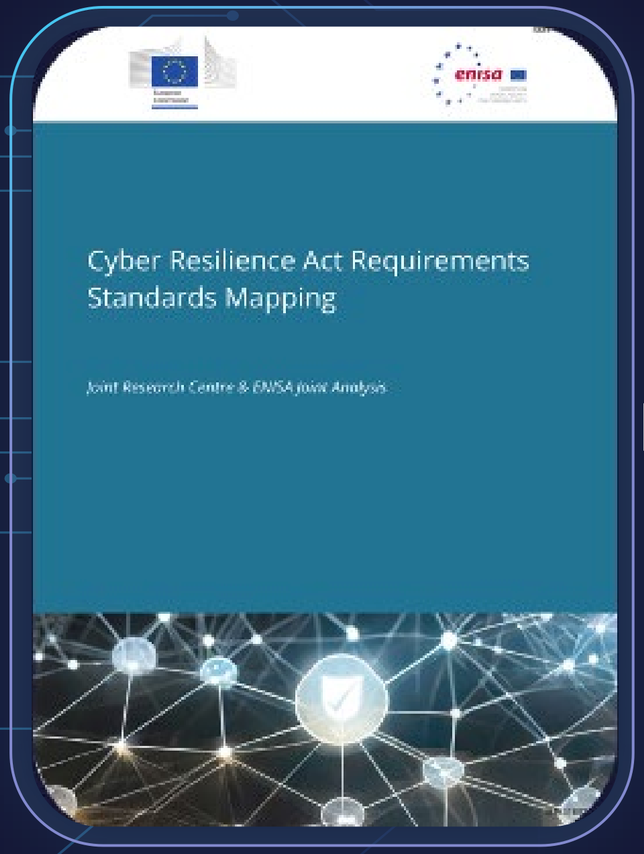
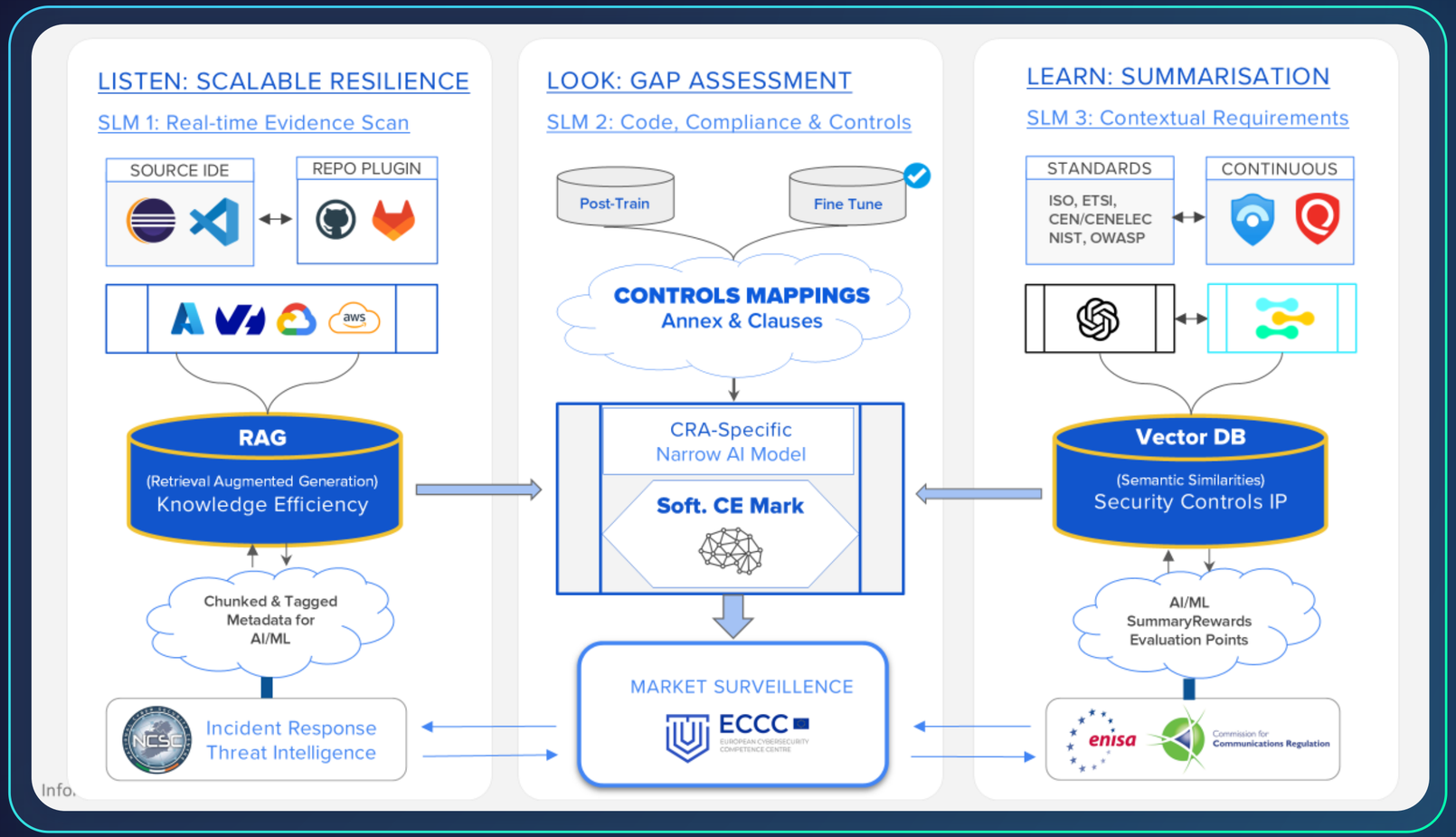
SLM1 - LISTEN: Scalability into IDEs, Code Repos and Cloud Security APIs
SLM2 - LOOK: EU Cybersecurity Regulatory Compliance Frameworks
SLM3 - LEARN: Azure OpenAI, Sentinel, Qualys, Protostars Private-Hosted AI Models





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DEPLOYMENT AND MAINTAINABILITY

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Maintenance 1 FTE fully managed, no third-party dependency | Minimal training AI assisted onboarding

AZURE OPEN AI – CLOUD DOCKER

1. SaaS Integration

2. API Documentation on Swagger

3. Special Project Platform Management

AI and Security Expertise

5 days Scoping

Data Governance AI Setup

10 – 20 days POV

Protostars AI Product Security

PRIVATE-HOSTED AI ON-PREM

1. Internal zoning conditional forwarding

2. Resource groups and usage metering

3. Secrets value APIs keys, rotation, logs

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COMPANY SNAPSHOT

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Founded: April 2023 | HQ Ireland | 7 FTEs

Members of Station F Paris and Bayes Centre AI Accelerator University of Edinburgh

KIM MCKAYED

CEO
CO-FOUNDER

18 years ICT

Led Service Delivery for Bank of Ireland with BT

DAVID FORTUNE

CISO ADVISOR
CO-FOUNDER

20 years IT InfoSec

Finance and Global Technology Enterprises

MOHAMED FAYEZ

CTO
CO-FOUNDER

10 yrs Software

Helped prevent Insurance Fraud in Irish Court

NOURAN ATTIA

AI DIRECTOR
FEB 26 CO-FOUNDER

8 yrs AI at IBM

Coding, business development and team expansion

RIDA VILLANUEVA

GOV. ADVISOR
ADVISORY BOARD

15 years GRC

EY, GT Leader, advising regulators, Global manager

FATMA ZRIBI

CONSULTANT
PRODUCT GROWTH

5 yrs Cyber Growth

MSc. CyberSec Lecturer in University on SEO and Cyber.

BT verizon EY Building a better working world IBM Ulster Bank

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FINANCIALS

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Co-funded by Enterprise Ireland 39 Global Offices 🚀
Bootstrapped €204k software consulting and raised €310k

Protostars **CAGR)** from 2024 to 2025 is on track projected at **317.6%**.
Using this growth rate, the projected revenue for the following years would be:

- **€150K ARR**
  WEIGHTED SALES TODAY
  6 Months runway
- **€15K Monthly burn**
  Product Engineering & Sales
  Leadership team growing
- **€5M EU Funding**
  2026 KEYTECH & CYBERSEC
  EU Digital Europe Programme

PLG of $1.1M ARR within 3 years

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Let’s transform how the EU Audits and Certifies Product Security!

And Third-party Software Supply Chain Risk Management

- Strategic Pilot Partners for Software CE Marking
- Cybersecurity Ecosystem Collaborators
- Commercial B2G Engagements

References:

[1] Cost of Compliance and Regulatory Productivity | Deloitte US#

[2] False Positive Alerts Cost Organizations $1.3 Million Per Year: Report - SecurityWeek

[3] Gartner Identifies Three Compliance Function Trends in 2023

[4] Report: 63% of security practitioners experience burnout | Security Magazine

[5] The Global Cost of Non-Compliance in 2024 | StarCompliance

PROUD MEMBER OF CYBER|IRELAND 2024 - 2025

NCSC NATIONAL CYBER SECURITY CENTRE

Enterprise Ireland

ECSO EUROPEAN CYBER SECURITY ORGANISATION

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