

2024



CY4GATE

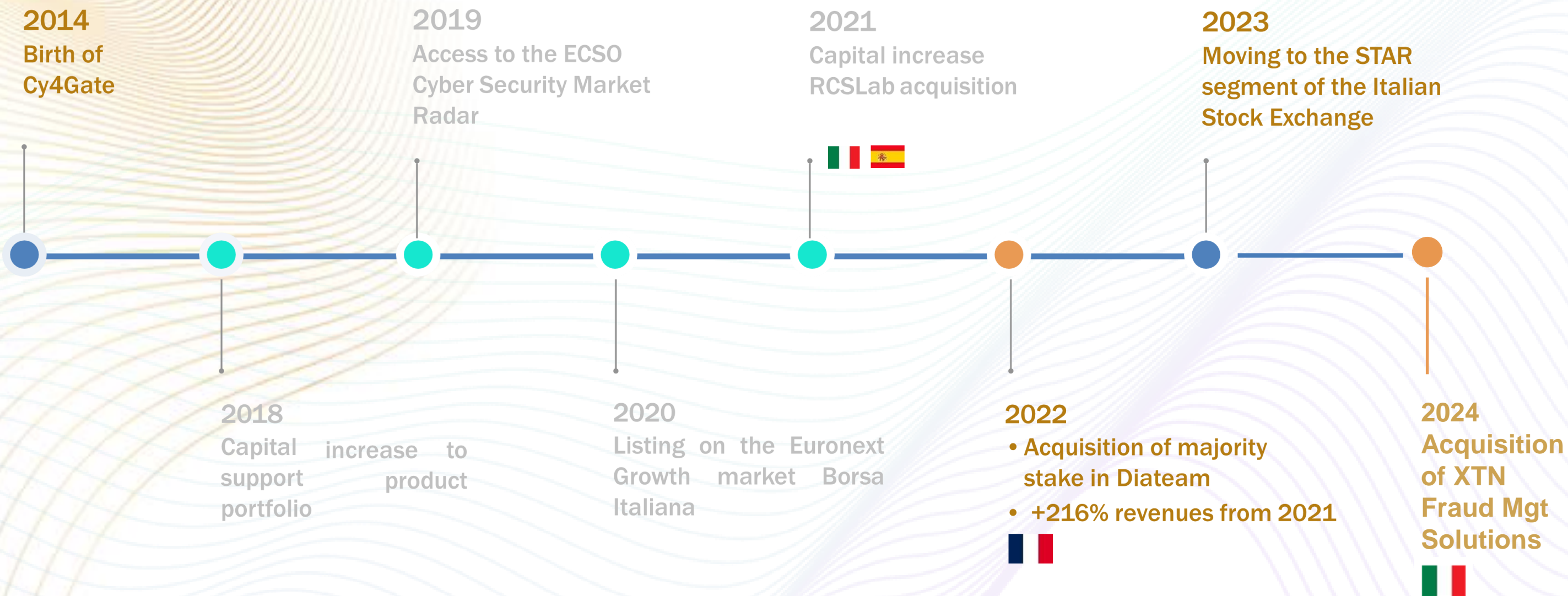
Advanced Cyber Security and Decision Intelligence:
CY4GATE European Ecosystem

CY4GATE GROUP AT A GLANCE

your European vendor in cyber and decision intelligence domain



BRAND HISTORY AND MILESTONES



REVENUE FY23 = 65+ M€
PEOPLE FY23 = 450+
TECH/DEV PROFESSIONALS = 350+



LatAm



Gulf/Middle East



South-East Asia

CUSTOMERS & REFERENCES



CY4GATE (EGM:CY4), Italian industrial group listed on the stock exchange, was established in 2014 with the aim of offering advanced technological solutions in the domain of Cyber Security and Decision Intelligence.

CY4GATE STRATEGIC PORTFOLIO

TECHNOLOGIES AND VALUE-ADDED SERVICES

CYBER INTELLIGENCE

Cyber Intelligence products and services collect and analyze information available online and generated through the use of digital and electronic devices

Decision intelligence

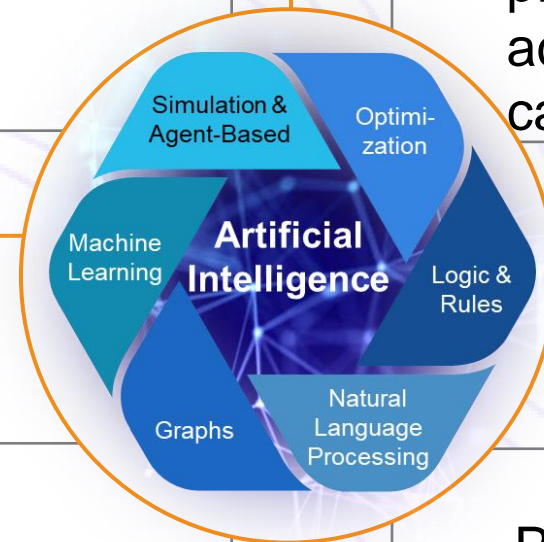


QUIPO is a complete **Decision Intelligence** platform, based on **artificial intelligence technology**, able to mix and match: several data sources, analytical capabilities, visualization functions in order to offer a better prediction for timely and effective reaction to events

Forensic intelligence



Support law enforcement and int. agencies providing **customizable and easy-to-use forensic intelligence & data analysis solution** covering virtually any type of telecom network and electronic communications services.



CYBER SECURITY

Cyber security products and services protect clients' information systems, enabling the detection of anomalies and generating response actions



Real time analytics (RTA) operationalize incident detection and response to rapidly strike back using a **Modern SIEM** approach. RTA is the core of our **Managed Detection & Response** and **SIEM-aaS** services. **Diateam** is the **Cyber Digital Twin platform**, for cyber training, prototyping, testing and validation. **Cyber Threat Intelligence Platform (CTI)** increases products offering. XTN Cognitive Security as last acquisition is a real boost on EP biometrics analysis capability



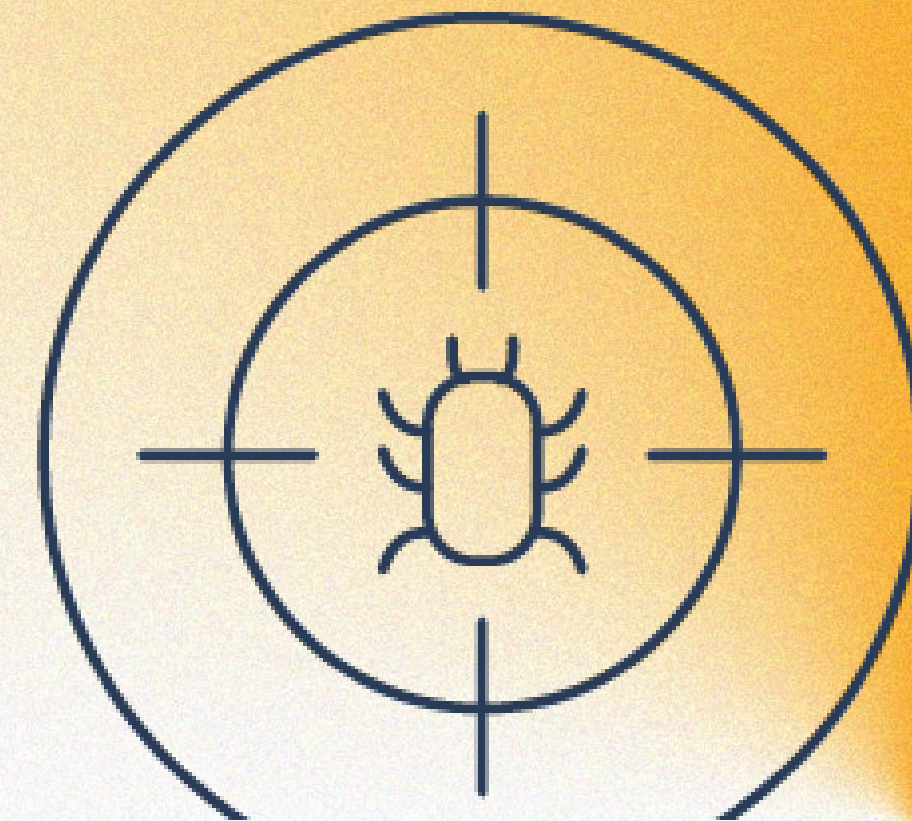
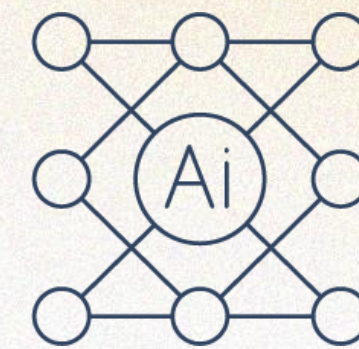
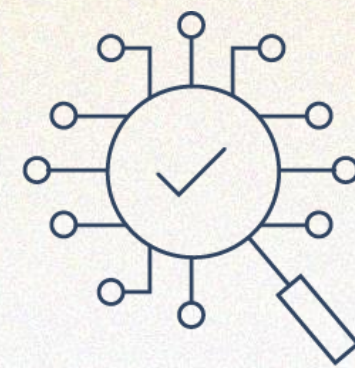
Pool of strong **High-value Cyber Security services** covering the following topics:

- Red Teaming and Penetration Test
- Compliance Assessment
- Managed Detection & Response
- Incident Response & Malware Analysis
- Hands-on Cyber Training and Security Awareness
- Cyber Resilience Design for Critical Infrastructure

Cybersecurity Products

Cybersecurity services

CYBER SECURITY



CYBER THREAT HUNTING, IN REAL TIME

reactive defense is not enough: *tdir* capabilities with a composite ai ® approach

WHAT'S IN IT 4 YOU?

- Time to respond reduction
- Proactive **multi-verdict** based analysis to early detection of potential issues
- Extreme, flexible and **rapid verticalization** of a solution with a cloud-oriented architecture
- Operation-oriented case management
- **IT/OT/IoT extended visibility** on new cyber threats

CYBER THREAT HUNTING, IN REAL TIME

reactive defense is not enough: *tdir* capabilities with a composite ai ® approach



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WHY CY4GATE?

- Significant use case in Gov/Defense/Naval and other OT environments
- Representative vendor in **Gartner® Composite AI®** capability
- Large integration with OT/IT/IoT solutions, CTI and SIEM technologies



Be predictive and proactive as well as reactive: Explore TDIR Capabilities with our Cutting-Edge Composite AI® Approach.

TRAIN AS YOU FIGHT, FIGHT AS YOU TRAIN

the hybrid cyber range to upgrade your cyber security arsenal



WHAT'S IN IT 4 YOU?

- Virtualization, emulation and simulation of IT, IoT & OT/ICS infrastructures.
- Provides complete action learning/training platform for your Blue/Red teaming.
- Full Test & Validation in a safe & secure, reality-based IT/OT/IoT environment
- Hybrid capacity allowing to interconnect real equipment



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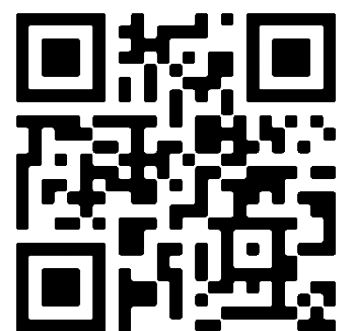


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WHY CY4GATE?

- **DIATEAM is European leader in Hybrid Digital Twin solution**
- **Significant success cases and references in either Defense and Critical Infrastructures domain**
- **Tactical appliance**
- **Reduced time to create custom scenarios**
- **Full integration with Learning Management Systems**



Everything you need to test, validate and exercise on, in a safe, secure and reality-based digital twin scenario, embedding IT / OT/ SCADA / IoT elements

SMART APP PROTECTION

WE PROTECT SENSITIVE DATA AND TRANSACTIONS OF MOBILE OR WEB APPLICATIONS FROM POTENTIAL RISKS AND THREATS.



WHAT'S IN IT 4 YOU?

ACCOUNT TAKEOVER DETECTION

Detect fraudulent activity relying on behavioral biometrics checks and device identity authentication

MALWARE DETECTION

Detect malware activity both in mobile and web Apps

NEW ACCOUNT FRAUD INDICATORS

Recognize common technological indicators of new account fraud, such as devices or networks used by multiple users

RASP

Detect and report vulnerabilities and real-time attacks in mobile devices

NETWORK THREAT DETECTION

Spot out Man-in-the-Middle attacks, anomalous network requests from the client, and TLS related anomalies

SERVER CONTROLLED SDK SIDE CHECKS

Real-time policy changes on checks performed in the device

SERVER-SIDE COUNTERMEASURES & REPORTING

Report useful information to the server to recognize the threat and take appropriate countermeasures

CODE OBFUSCATION

Make the code difficult for the reader to understand

WHY CY4GATE ?



Malware Detection



Account Takeover Protection



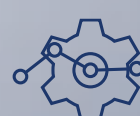
New Account Fraud Protection



Passive Biometrics



Real Time Alerts



3rd Party Services Integration

SMART AUTHENTICATION

BY COMBINING BEHAVIORAL PASSIVE BIOMETRICS FEATURES WITH MULTI-FACTOR AUTHENTICATION (MFA) THIS SOLUTION IS ABLE TO PROTECT THE USER AUTHENTICATION PROCESS



WHAT'S IN IT 4 YOU?

BEHAVIORAL BIOMETRICS

It allows ongoing user identity decisions, assessing various signals in real time

DYNAMICALLY LINKED SCA

Every authentication is closely linked to the data entered by the user

MULTIPLE TOKENS SUPPORT

Multiple software tokens are supported

ACTIVE BIOMETRICS

Unlock your software token using fingerprint or face recognition

INVISIBLE DEVICE AUTHENTICATION

Invisible authentication tokens running on every server interaction silently gather the data needed, relieving the user from entering data

CHANNEL-BASED DATA

The user doesn't need to enter the OPT code manually: where possible, the app authenticates the user via the data network

REST API FOR FLEXIBLE INTEGRATION

Report useful information to the server to recognize the threat and take appropriate countermeasures

WHY CY4GATE ?

 Frictionless UX

 Effective Threat Detection

 Real Time Control

 Flexibility

 Banking Regulations Compliance

SMART FRAUD PROTECTION

OUR ANTI-FRAUD SHIELD (SMASH®) THAT LEVERAGES MACHINE LEARNING TECHNIQUES AND PROPRIETARY AI ALGORITHMS FOR REAL-TIME ANALYSIS TO DETERMINE A RISK SCORE



WHAT'S IN IT 4 YOU?

UNIFIED CONSOLE

It merges all anti-fraud analysis activities

CASE MANAGEMENT

The workflow is defined based on the context's typical fraud analysis process, and it is entirely configurable to meet any industry-specific need

MULTI-TENANT

Multi-tenant features allow to apply different policies analyses to various legal entities or channels

OUTPUT ACTION ENGINE

The internal engine can initialize output commands depending on specific events

COMPLETE CONTROL OF POLICIES & RULES

The fraud analyst has complete control of policy and rules, checking the behavior of the risk engine, tuning the rules in case of need, and creating new rules based on its needs and business requirements

WHAT-IF ANALYSIS TOOL

A tool to support fraud analysts in verifying the impact of a policy's update before releasing it into the production environment

EASY INTEGRATION VIA REST API

Integration via Rest APIs to retrieve in real-time fraud analysis results and manage the suspicious transactions

DATA REGISTRY

It enriches engine analysis with information collected by bank repositories and applications

WHY CY4GATE ?



User Behavior Analysis



KYC Analysis



In-App Protection



Money Mule Hunting



Application Fraud Protection



PSD2 Compliance

CY4 Value Added Cyber Security Services Ecosystem



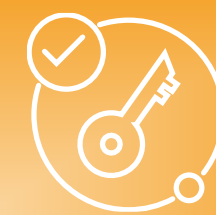
**CYBER
ASSESSMENT
SERVICES**



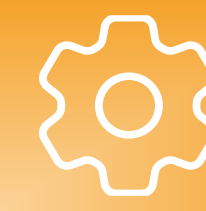
**INCIDENT
RESPONSE
SERVICES**



**SECURITY
CONSULTING
SERVICES**



**SECURITY
IMPLEMENTATION
SERVICES**

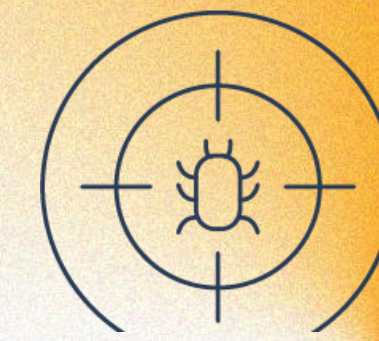
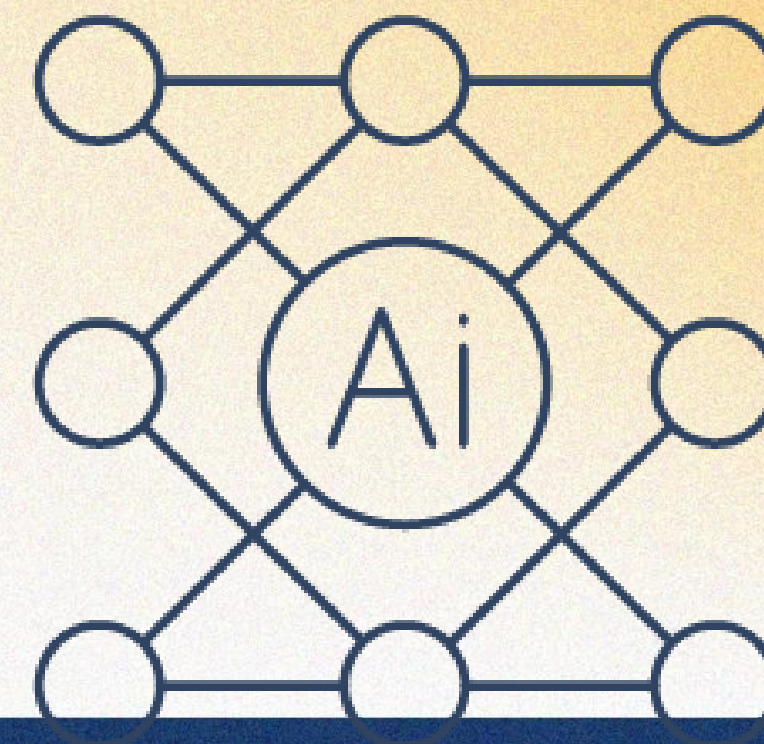
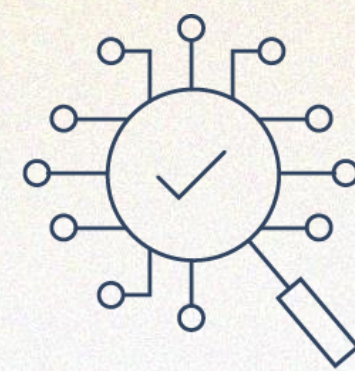


**TRAINING
SERVICES**



**EDUCATION &
AWARENESS**

DECISION INTELLIGENCE



CY4 Decision Intelligence proposition:
QUIPO® Platform

QUIPO Decision Intelligence platform: our way to *foster intelligence* to support your *Decision Making process*

Decision Intelligence is a wide world that spans from Decision Support to Decision Automation, through Decision Augmentation solutions. The objective is to improve, simplify, and strengthen the Decision Making Process of our customer with dedicated AI-based models built on your relevant and specific business problems.

REALLY ANOTHER DECISION INTELLIGENCE PLATFORM?

what you really need to make decision and take actions is.. Actionable insights

WHAT'S IN IT 4 YOU?

- **Avoid data fragmentation**
- **Convergence to *so-what* momentum**
- **Heterogeneous & multi-source data in a single workspace**
- **Avoid information overload**
- **Ease of integration from CLOSINT and OSINT sources**

OUR MOST RELEVANT USE-CASES

- **Know-your-Customer**
- **Know-your-Supplier**
- **Search & Investigation**
- **Digital Sales Funnel**
- **Healthcare**
- **Executive AI Cockpit**
- **Corporate Business Intelligence**
- **Threat Monitoring**

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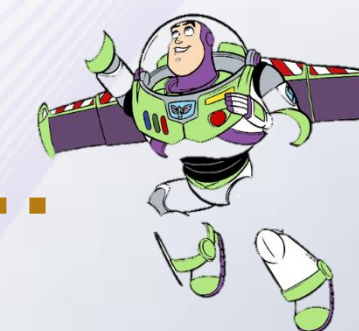
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WHY CY4GATE?

- Representative vendor in GARTNER Composite AI® capability
- Long track record of success cases and references in either Defense and Critical Infrastructures domain
- Multi domain verticalization

From data, through information, to insight and beyond...



Decision Intelligence

L'Intelligenza artificiale a supporto delle decisioni dell'organizzazione,

QUIPO AI PLATFORM: una piattaforma sulla quale vengono realizzate soluzioni innovative per risolvere problemi complessi attraverso l'utilizzo intelligente di algoritmi costruiti per il cliente.

CY4GATE EXECUTIVE COCKPIT: è un sistema progettato per i dirigenti e i responsabili decisionali all'interno di un'organizzazione. Offre una visione completa e integrata delle attività aziendali, permettendo il monitoraggio delle prestazioni, l'analisi dei dati e la presa di decisioni informate e strategiche.

**DATI eterogenei
da fonti
distribuite**

**INFORMAZIONI
contestualizzate**

**SCENARI e
possibili azioni**

DECISIONI





CY4GATE AI PLATFORM

CY4GATE fornisce applicazioni di intelligenza artificiale per le imprese che soddisfano le esigenze di business nei settori dei servizi finanziari, della pubblica amministrazione, dei servizi pubblici, della difesa e dell'intelligence.

Cosa rende QUIPO AI Platform un valore aggiunto

**Risultati
misurabili**



Partiamo da un problema e facciamo in modo che i nostri algoritmi possano aiutare l'azienda ad ottenere risultati misurabili e un vantaggio economico o operativo.

**Miglioramento
continuo**



Gli algoritmi vengono realizzati per l'esigenza del cliente e **crescono insieme a lui**: più feedback e dati raccolgono, più sono efficaci.

**Integrazione
e scalabilità**



Integrabile con qualunque processo aziendale e con la tecnologia già presente in azienda.
Evolve con la digitalizzazione moltiplicandone le ricadute positive sul business.

CY4GATE EXECUTIVE COCKPIT



Rendere semplice ciò che è complesso: abbiamo molte informazioni, molti dati che cambiano continuamente e diverse esigenze. Vogliamo prendere tutta questa complessità e renderla semplice: il nostro Executive Cockpit.

Cosa rende Executive Cockpit un valore aggiunto per il decision maker

Sintesi Efficace



Un colpo d'occhio per comprendere e ricordare quello che è importante.

La sfida è **lasciare impresse** nel Decision Maker le poche informazioni utili a poter **prendere la decisione**.

Data Storytelling



Rendiamo parlanti **grandi moli di dati ed informazioni** grazie ad una straordinaria capacità di correlazione ed analisi.

I dati in evidenza, i trend che ti interessano e gli approfondimenti che cerchi.

Sicurezza e governance



Il Cockpit è disegnato per concedere permessi in base ai ruoli decisionali individuati.

Accountability e Trasparenza in linea con la governance dell'organizzazione.

Design sulle vostre esigenze

Pochi step chiari che seguiamo per garantire un'implementazione efficace che risponda realmente alle esigenze per le quali è disegnata.

ESPLORAZIONE



Chiarire lo **scopo del progetto** e i requisiti della soluzione. Questa è la fase in cui viene **individuato e circoscritto il problema** da risolvere, per la successiva modellazione matematica.

DESIGN



Realizzare un **quadro chiaro di come sarà la soluzione di analisi** e di come verrà implementata. Esperienza d'uso, processo decisionale, insights e raccomandazioni desiderate.

SVILUPPO



Sviluppare una **applicazione customizzata** in linea con i requisiti, potenziata dai moduli di AI e Machine Learning applicati al modello individuato in fase di Esplorazione. **Lo sviluppo di moduli ad-hoc di AI è il cuore di questa fase.**

RILASCIO



Deployment della soluzione agli utenti finali fornendo tutta l'assistenza necessaria per **ottimizzare l'adozione della soluzione**. Misurazione dei vostri risultati.

Use Case: Digital Sales Funnel

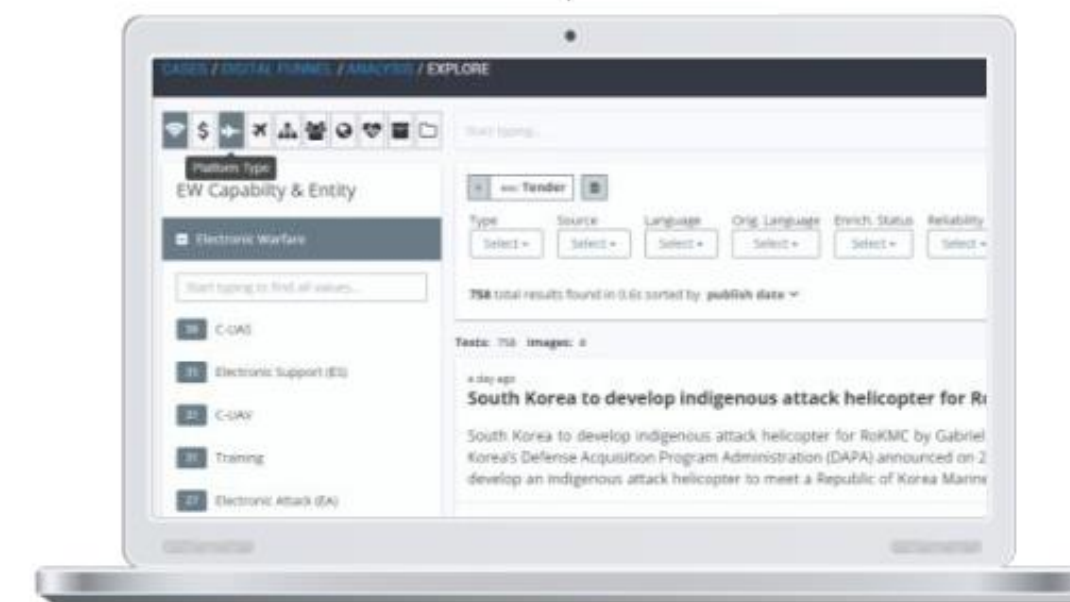
Diversi tipi di **fonti per la raccolta dei dati**, ad es. Feed di notizie, Web, Database



Analisi dei documenti raccolti per tipologia, per trend, per tempo



AI Cognitive Agent che si occupa di fare scouting continuo e analizzare i nuovi i documenti



Dashboard visuale con le mappe per le opportunità ed i competitor distribuiti per Paese



Use Case: Recupero opere d'arte rubate



Scansione continua di siti di case d'asta, marketplace e siti di vendita tra privati



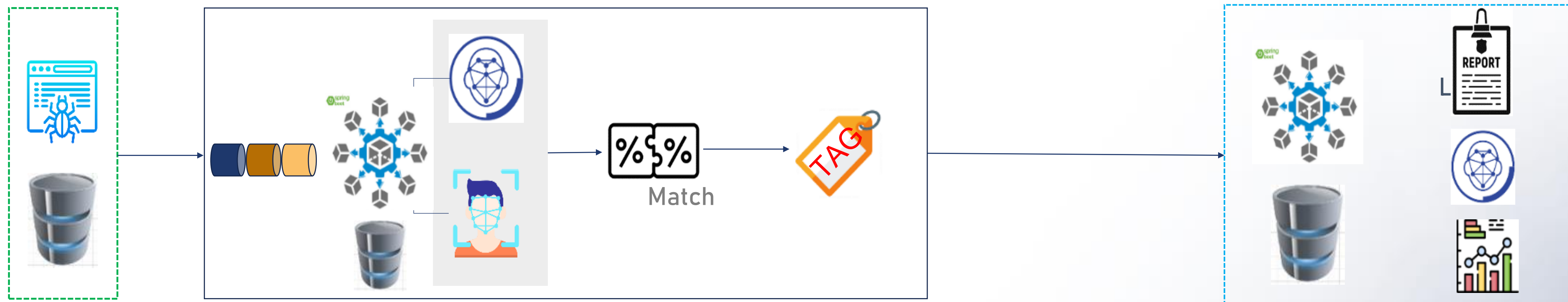
Analisi dei documenti e delle immagini raccolte per tipologia, per trend, per tempo



AI Cognitive Agent che si occupa di fare matching continuo tra immagini recuperate ed il database delle opere rubate



Sistema di alerting in caso di match



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