

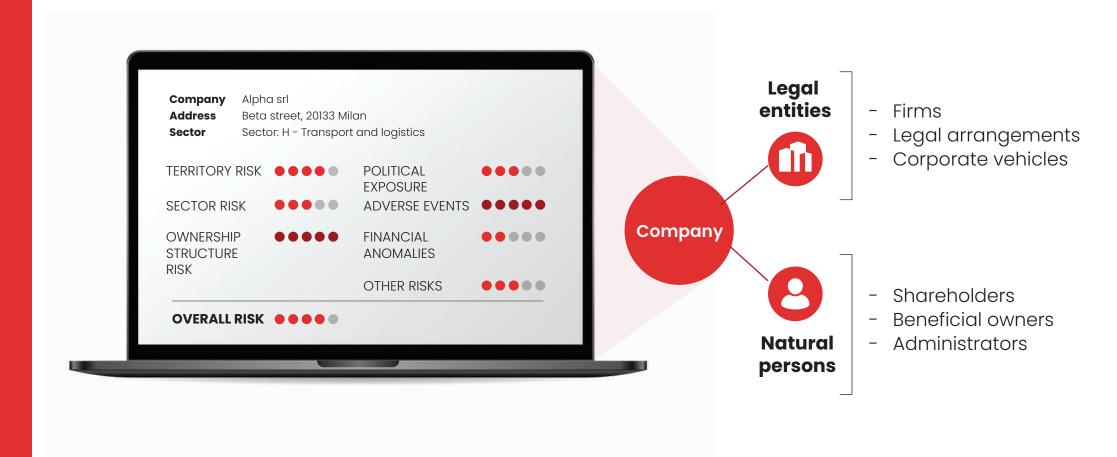


Crime&tech Risk indicators

Crime&tech offers the widest global portfolio of risk indicators for AML/CFT and third-party screening.

The risk indicators are based on models developed in our research projects.

They can be associated to **legal entities** (companies, corporate vehicles) and the **individuals** linked to them (shareholders, beneficial owners, administrators)





Crime&tech risk indicators

They allow to:



Incorporate the risk-based approach promoted by anti-money laundering (AML) and anti-corruption regulations



Move beyond traditional risk assessment approaches based solely on the check of 'compliance lists'



Cover firms at a global level (220+ countries, 400M+ firms), allowing to tackle the transnational nature of organised and financial crimes



Cover different risk dimensions, such as territorial risk, sector risk, ownership structure risk, financial and accounting anomalies, and other risk factors



Focus not only on "who" controls a firm, **but also on "how"** control takes place - the operational context, the whole corporate structure and its links



Reduce the information over-load by condensing high volumes of data into synthetic risk scores



End users and use-cases

Crime&tech indicators can be used by different players for many purposes:



Obliged entities for AML/CFT due diligence



Anticorruption agencies for public procurement integrity checks



Private companies for on-boarding, reputational due diligence and on-going monitoring of counterparts



Competition authorities for cartel detection and procurement fraud investigations



Law enforcement agencies for organized crime, money laundering, corruption and tax fraud investigations



Supervision authorities for risk assessment and monitoring of geographic areas and business sectors at high risk



Our portfolio of risk indicators

More than 20 different indicators, constantly evolving, and including among others:



Ownership structure

- Anomalous complexity of ownership structure
- Ties to opaque corporate vehicles and legal arrangements
- Lack of information on beneficial ownership
- Anomalous shareholding patterns
- Anomalous frequency of board rotations



Territory & Sector

- Firms in municipalities with high mafia risk
- Partners, BOs, or directors from municipalities with high mafia risk
- Links with high-risk countries (several specifications)
- High-risk economic sectors



Other risk factors

- Anomalous characteristics and background of BO/directors
- Anomalous frequency of name and address changes
- Anomalous date of incorporation
- High-risk legal forms (country specific)



Political exposure

- Shareholders, Beneficial Owners or Directors
 - Politically Exposed Persons
 - Local Administrators (in several EU countries)



Negative events

- Enforcement events
- Adverse media
- Sanctions
- Sanctioned professionals
- Mentions in Offshore Leaks (e.g. Panama Papers, etc)



Financial anomalies

- Shell company indicators
- Anomalies in the income statement
- Anomalies in the balance sheet
- Anomalies in cash flow



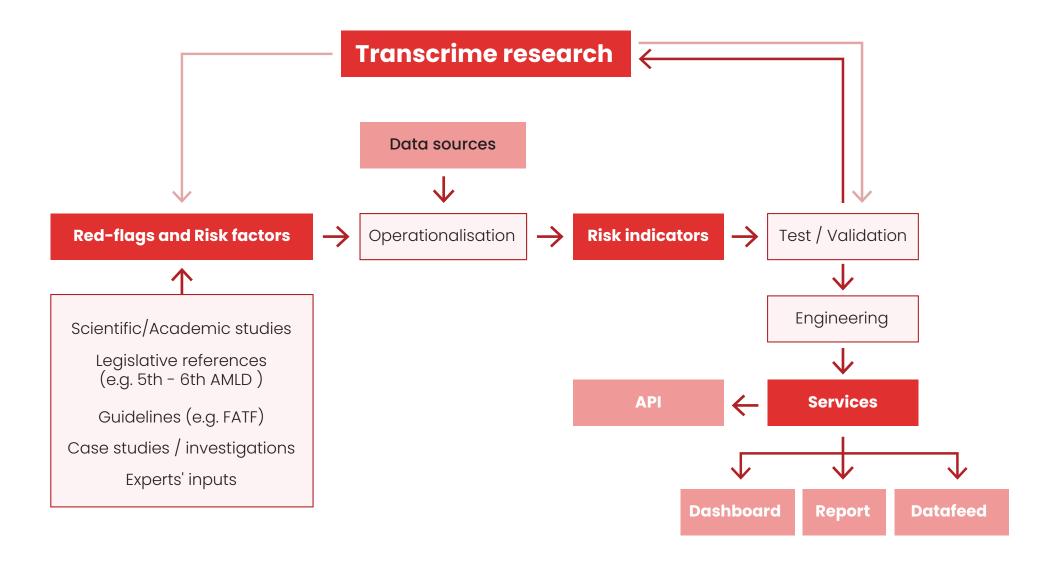
Countermeasures

- Anti-mafia white lists
- AGCM Rating
- Certifications (e.g. SOA)



Process and methodology

The indicators are developed using frontier analytical approaches, and following the research activities carried out by Transcrime and Crime&tech in previous research projects.





Delivery channels

Crime&tech indicators can be accessed through **four delivery channels**:



Webservices

though API connections to customer applications



Customised platforms

RISK MASTER RISK VISIONER



Customised reports

on companies and/or individuals



Datafeed

Through integration of flat files the customer can integrate into its applications









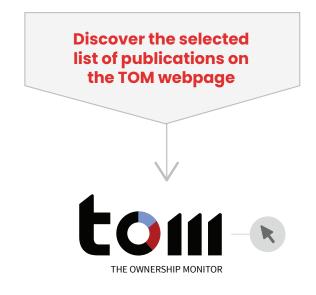




Scientific validation

The indicators are validated in their predictive power in several international scientific publications.

Crime&tech risk indicators have shown strong predictive power in identifying firms (and owners / directors) later affected by sanctions and judicial measures. In a test conducted on a sample of 13.4M million of firms and owners, **ownership risk indicators** correctly predict **82.6%** of firms affected by sanctions and **88%** of firms with partners affected by judicial measures.

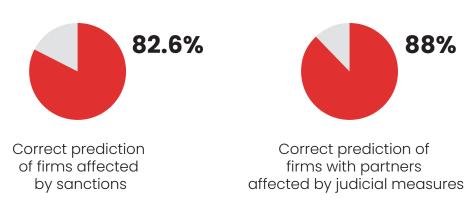


TOM - The Ownership Monitor

is an excellence R&D hub launched by Transcrime and Crime&tech, for the analysis of business ownership structures.

Discover more:

https://www.transcrime.it/en/tom-the-ownership-monitor/



	True Positive Rate	True Negative Rate	Overall Accuracy	AUC	Precision
SANCTIONS ON COMPANIES	82.6%	83.5%	83.1%	0.904	0.834
ENFORCEMENT ON COMPANIES	65.2%	76.4%	70.8%	0.785	0.734
SANCTIONS ON OWNERS	88.7%	84.7%	86.7%	0.921	0.923
ENFORCEMENT ON OWNERS	87.8%	92.7%	90.3%	0.921	0.923



Institutional validation

Crime&tech risk indicators have been developed and validated within international research projects involving numerous public authorities at international level and private companies











Law Enforcement Agencies

Europol

Anti-Mafia Investigative
Directorate

Guardia di Finanza

CNP - Cuerpo Nacional de Policía, Spain

BFP - Belgian Federal Police, Belgium

DCPJ - Direction Centrale de la Police Judiciaire, France

> ANABI - Romania ...and others

Anti-Corruption Authorities

ANAC - National Anti-Corruption Authority, Italy

AFA - Agence française anticorruption, France

OPLC - Prevention and Fight against Corruption Office of the Balearic Islands, Spain

ANI, Romania

DNA, Romania

NCPA - Network of Corruption Prevention Authorities of the Council of Europe (GRECO)

...and others

Competition and Market Authority and other Public Authorities

ADLC - Autorité de la Concurrence, France

CCRL - Competition Council of the Republic of Lithuania, Lithuania

UOHS - Urad pro Ochranu Hospodarske Souteze, Czech Republic

National Anti-Mafia
Directorate

Lombardy Region

ORGA - Agency for the management of confiscated property, Spain

...and others

Private enterprises and civil society

Banks and AML obligated entities

Companies in various fields (e.g. energy, IT) for supplier and third party control

Organisations of investigative journalists (e.g. OCCRP, IRPI, RISE)

...and others



Data sources

Transcrime and Crime&tech possess in-depth knowledge of key data sources used in compliance/due diligence. Crime&tech indicators are calculated exploiting the following data sources (among others):

Corporate data

Compliance lists and negative events

PEP and Local **Administrators**

Other sources (among others)























VOLBY,CZ

























data.gouv.fr













NETWORK

SIDB







Transcrime

- Joint Research Centre on Innovation and Crime (www.transcrime.it) of the Università Cattolica del Sacro Cuore
- Largest crime research hub in Europe
- Established in 1994
- · 200+ research projects funded nationally and internationally
- · Focus: organised crime, money laundering, financial crime
- Established network among European Law Enforcement, FIUs, Anti-corruption Authorities
- · Approach: sociology, statistics, economics, forensic accounting, law, IT

Crime&tech

- Spin-off company of Transcrime Università Cattolica del Sacro Cuore (www.crimetech.it)
- · Risk models, risk indicators, IT applications for the assessment and prevention of criminal risks
- Processing of multiple data sources (official stats, judicial files, open sources, company data)
- Frontier AI approach (machine learning, text-mining, big data scraping)
- Certified ISO/IEC 27001:2013
- Partner of solution providers and data providers







From Transcrime **RESEARCH**









to Crime&tech
SOLUTIONS

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