Our team

Global presence

Whether facing acts of fraud, regulatory inquiries, breach-of-contract claims or major litigation, organizations can turn to our multidisciplinary team for assistance. We employ former compliance executives, regulators and law enforcement officers. They bring insight from careers in investigation, law and criminal justice to help companies identify, detect and remediate integrity risks.

We coordinate our service delivery across international borders. Our professionals are familiar with local data protection and privacy rules, state secrecy laws and other regulations affecting cross-border data transfer. Each EY professional, regardless of location, is trained to adhere to our global standards for handling sensitive data and to abide by our well-established global methodologies.

Relevant thought leadership

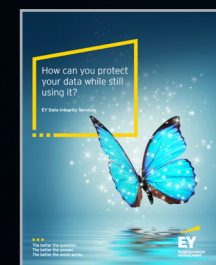If an employee goes rogue, how will you know?

Are regulators and litigants better at analytics than you?

EY forensic data analytics for integrated banker surveillance

EY forensic data analytics for legal and compliance response

EY Data Integrity Services

EY Digital Loss Prevention Services
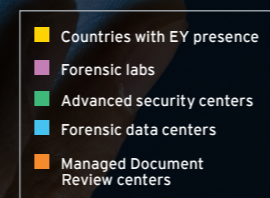
Managing integrity risks with AI

Managing integrity risks with robotic process

Analytics and AI in EY Discovery

Global Forensic Data Analytics Survey 2018

Americas:
Atlanta
Belo Horizonte
Bogota
Boston
Buenos Aires
Charlotte
Chicago
Cleveland
Curitiba
Dallas
Houston
Iselin
Lima
Los Angeles
Mexico City
New York
Quito
Rio de Janeiro
San Antonio
San Francisco
San Jose
Santiago
São Paulo
Secacucus
Toronto
Washington Metro DC

Asia Pacific:
Adelaide
Auckland
Bangkok
Beijing
Brisbane
Hanoi
Hong Kong
Jakarta
Kuala Lumpur
Manila
Melbourne
Perth
Seoul
Shanghai
Singapore
Sydney
Taipei
Tokyo

EMEA:
Amsterdam
Brussels
Bucharest
Budapest
Cologne
Copenhagen
Dublin
Düsseldorf
Frankfurt
Istanbul
London
Madrid
Manchester
Milan
Moscow
Oslo
Paris
Prague
Saarbrücken
Stockholm
Stuttgart
Vienna
Vilnius
Warsaw
Zürich

Africa:
Abuja
Cape Town
Durban
Johannesburg
Nairobi

Middle East:
Dubai
Tel Aviv

India:
Chennai
Hyderabad
Mumbai
New Delhi

Legend:
- Countries with EY presence
- Forensic labs
- Advanced security centers
- Forensic data centers
- Managed Document Review centers

EY | Assurance | Tax | Transactions | Advisory

ey.com

EY Virtual Analytics Infrastructure (EY Virtual)

The next-generation digital platform integrating human and machine intelligence

EY
Building a better working world

EY Virtual is a microservices-based AI and forensic data analytics platform available via cloud or on premises. It supports risk management and investigative activities by providing actionable insights within a secure, efficient and scalable technology environment.

EY is named as a leader in the "Gartner Magic Quadrant for Data and Analytics Service Providers 2021".
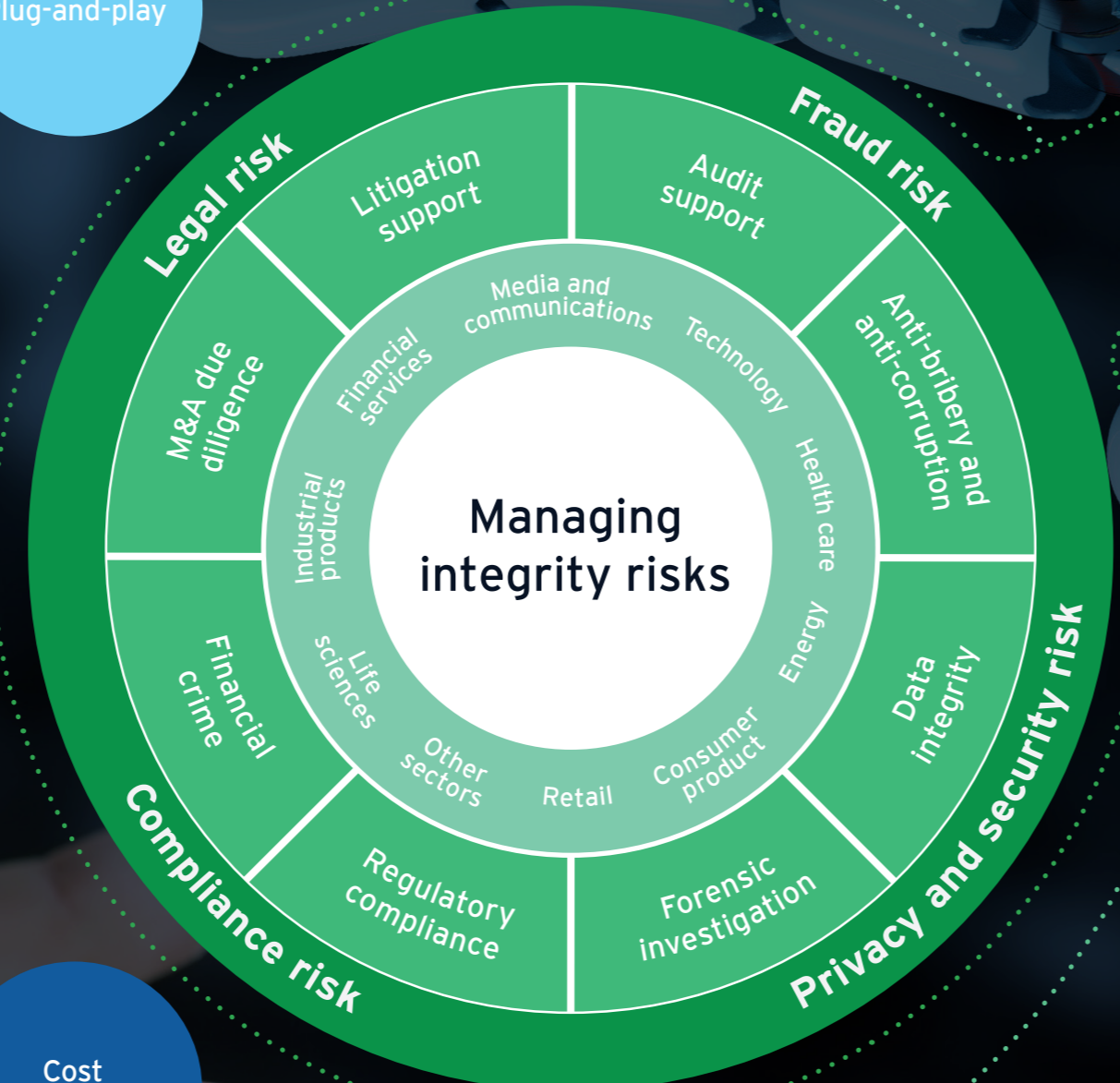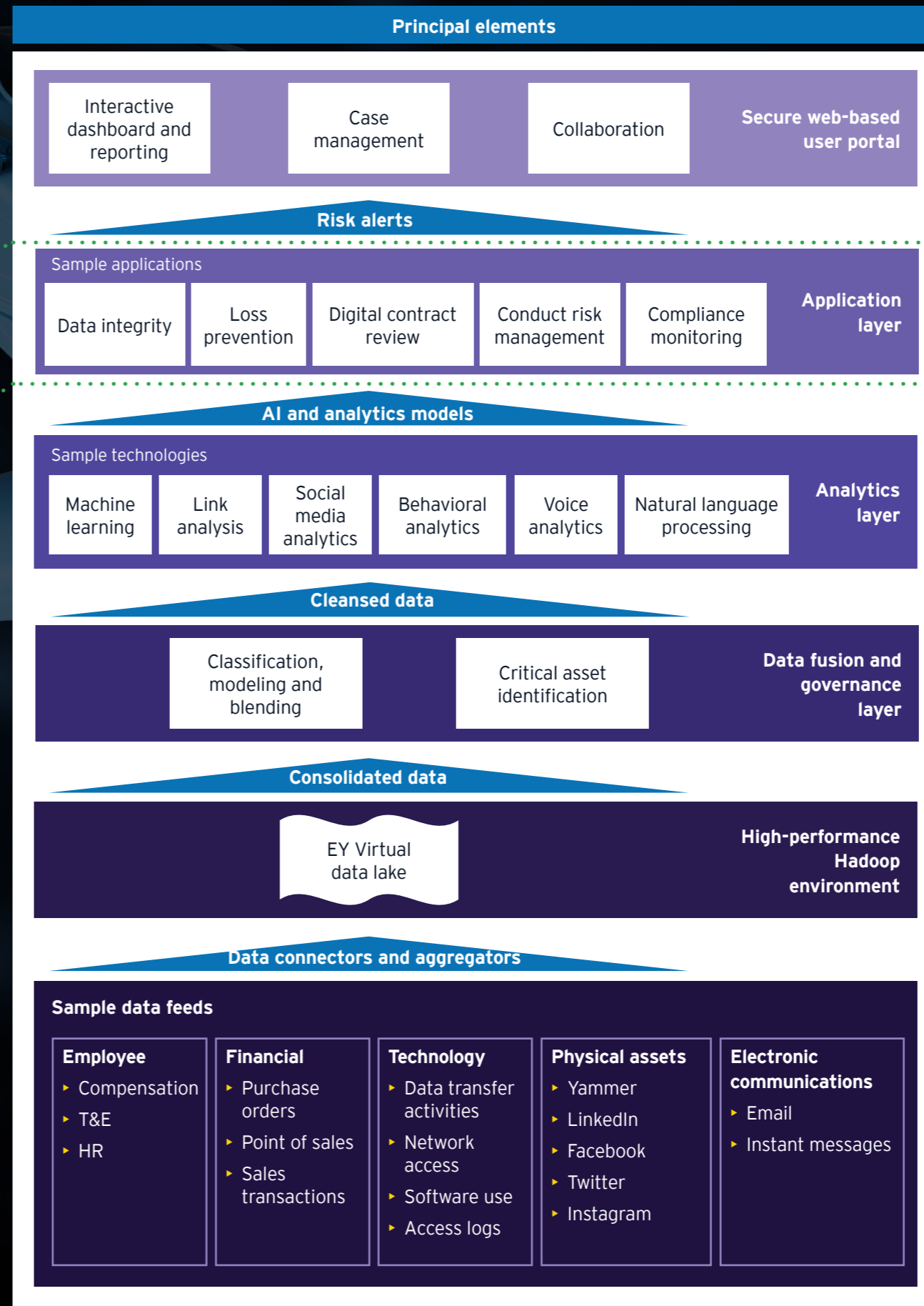
Key features

- Pre-developed algorithms and applications to serve a wide range of sector-specific risk management needs
- Robotic process automation (RPA) bots that automate routine and rules-based tasks

- Seamless integration with many commonly used ERP platforms, case management tools and data management applications
- Multiple deployment and data hosting options

- Robust front-office case management and reporting capabilities
- Efficient back-office support via innovative workflow designs and automation technologies

- Segregated development space and secure cloud deployment
- Using data anonymization technologies coupled with innovative workflow designs to manage compliance risks in cross-border data transfer
- Emphasis on privacy compliance in how data is sourced, analyzed and presented

- Supporting phased implementation for better cost visibility and control
- Modular design to increase the reusability of intellectual properties thus saving development time and costs

Application ecosystem

Managing integrity risks

Plug-and-play
Interoperability and flexibility
End-to-end support
Security by design
Cost efficiency

Legal risk
- Litigation support
- M&A due diligence

Fraud risk
- Audit support
- Anti-bribery and anti-corruption

Privacy and security risk
- Data integrity
- Forensic investigation

Compliance risk
- Regulatory compliance
- Financial crime

Sectors: Financial services, Media and communications, Technology, Health care, Energy, Consumer product, Retail, Other sectors, Life sciences, Industrial products

Architectural design

Principal elements

| Interactive dashboard and reporting | Case management | Collaboration | Secure web-based user portal |

Risk alerts

Sample applications

| Data integrity | Loss prevention | Digital contract review | Conduct risk management | Compliance monitoring | Application layer |

AI and analytics models

Sample technologies

| Machine learning | Link analysis | Social media analytics | Behavioral analytics | Voice analytics | Natural language processing | Analytics layer |

Cleansed data

| Classification, modeling and blending | Critical asset identification | Data fusion and governance layer |

Consolidated data

| EY Virtual data lake | High-performance Hadoop environment |

Data connectors and aggregators

Sample data feeds

Employee	Financial	Technology	Physical assets	Electronic communications
• Compensation	• Purchase orders	• Data transfer activities	• Yammer	• Email
• T&E	• Point of sales	• Network access	• LinkedIn	• Instant messages
• HR	• Sales transactions	• Software use	• Facebook	
		• Access logs	• Twitter	
			• Instagram	

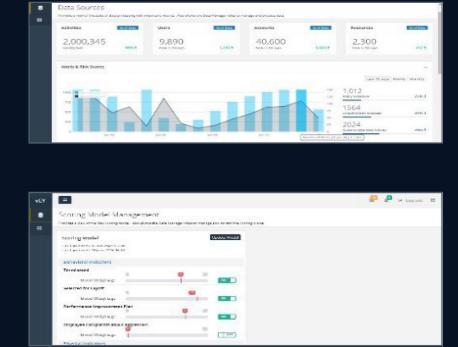### Robust case management capabilities

EY Virtual enhances case management tools with visualization, real-time interaction and seamless integration with workflow tools. Decision-makers can gain a consolidated view of risk alerts displayed along a common time dimension. We also supplement risk alerts with contextual market data and external intelligence feed, when needed.

Multiple deployment options:

- **EY cloud:** Source data is hosted on our secure network with single and multiuser cloud options. We offer scalability and 24x7 availability via our global technology infrastructure.
- **Enterprise deployment:** All data traffic is maintained within the client network, without any outside access.
- **Client cloud:** We can integrate with many of the most common and popular cloud technologies.

Machine learning combined with human review

Machines learn through an ongoing, closed-loop feedback process by leveraging knowledge gained from investigations and feedback from human review. Applications run on EY Virtual routinely fine-tune the algorithms used in identifying potential risk indicators.

Internal data — past incidents, violations and sanctions
External data — market intelligence, past incidents at peer companies
Algorithms → Scoring
Near-real time → Automated actions
Summary reports → Human review
High-risk alerts
Mitigation
Outcome
Descriptive Investigation Diagnostic
External triggers