

Jonathan Muise | U.S. Counter Fraud Solutions | IBM Software

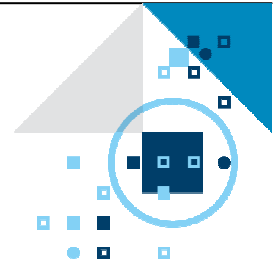
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May 8th, 2014

Smarter Counter Fraud From IBM

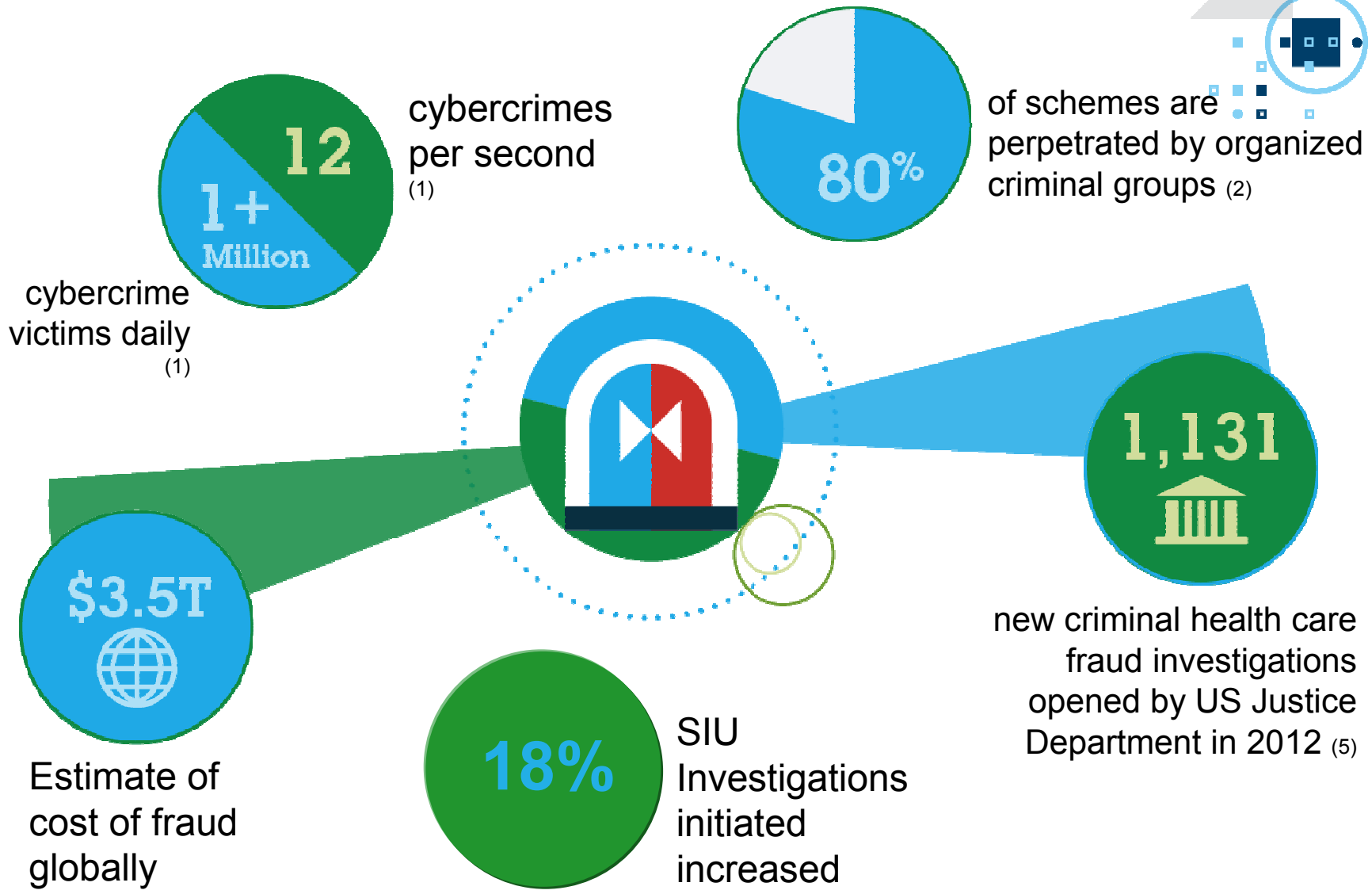
New Threats. New Thinking. A Smarter Approach To Counter Fraud



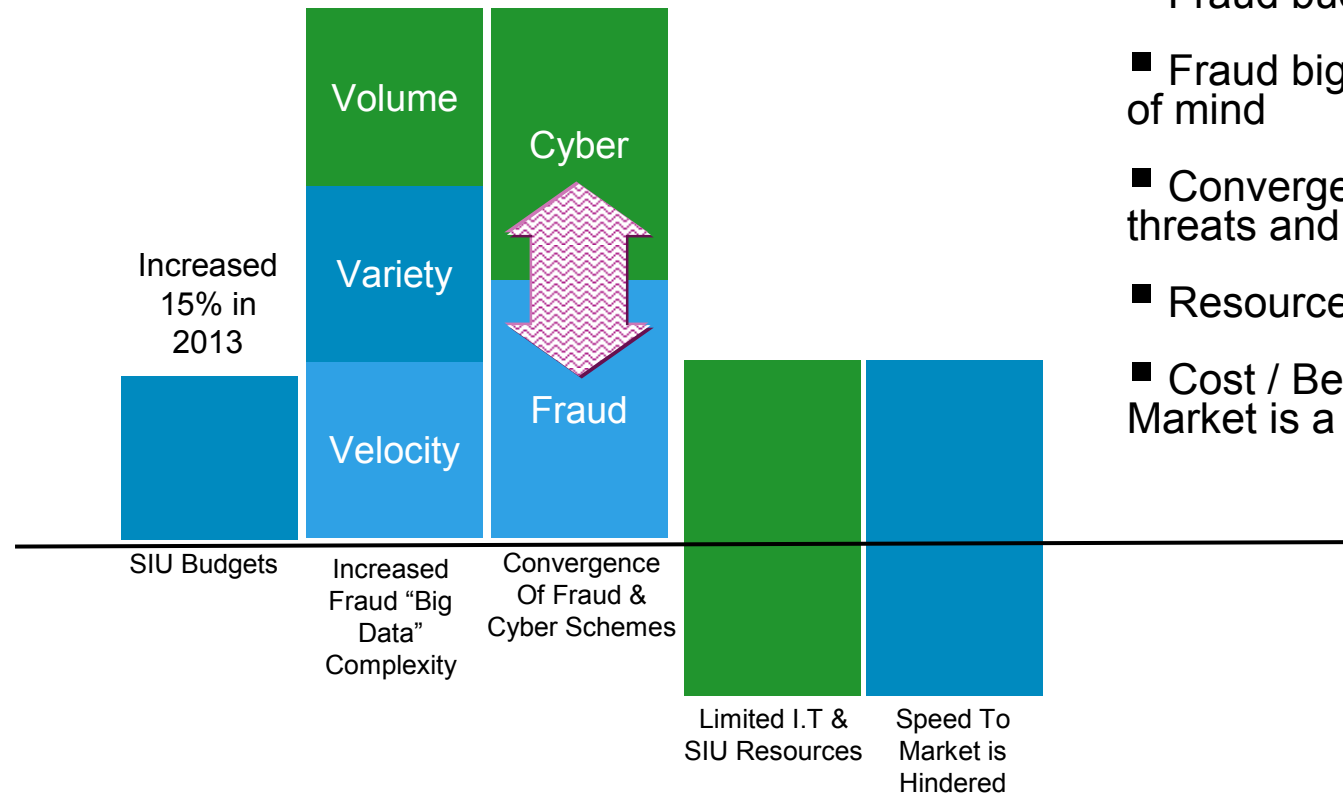
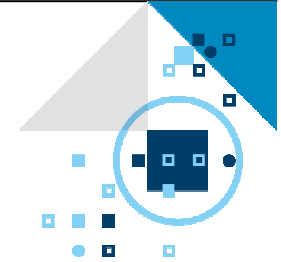


Cyber Fraud **Intelligence** Expertise
Security Integration Unaffordable
Prevent AML Smarter
Improper payments **Fraud and** Avoidable **Risk**
Unacceptable **Financial** **Governance**
Costly P&C claims Brand
Counter Crimes Technology Value
Complexity Tax Crime Customer
fraud **Big Data and** retention
Malicious **Analytics** Vision

The facts are alarming

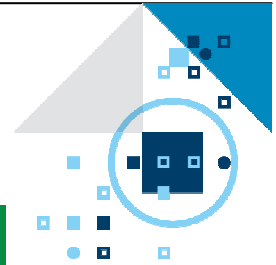


What is the business problem we are solving for organizations?

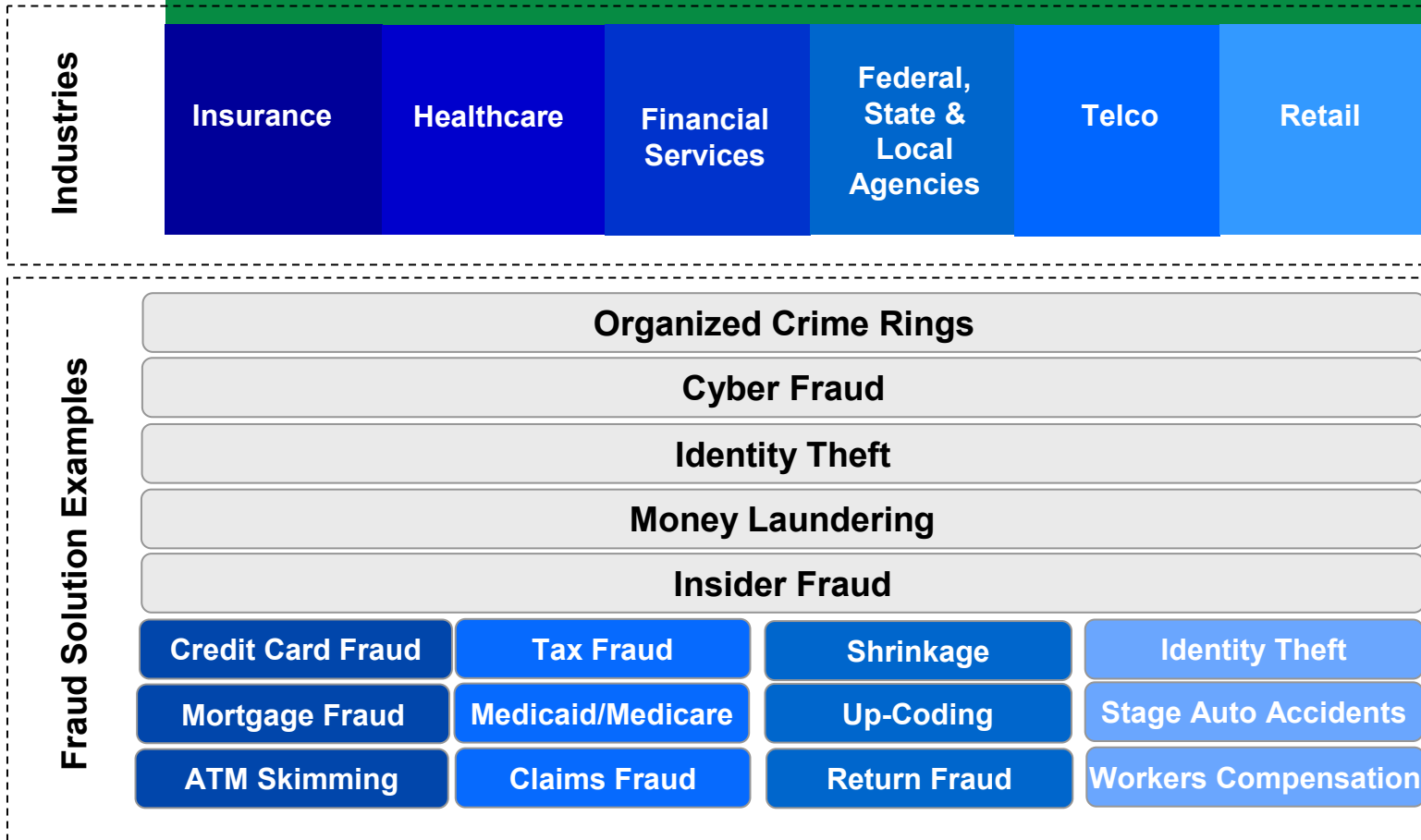


- Executives are taking notice
- Fraud budgets have increased
- Fraud big data priorities are top of mind
- Convergence between cyber threats and fraudsters is on the rise
- Resources continue to lag
- Cost / Benefit vs. Speed to Market is a fine balance

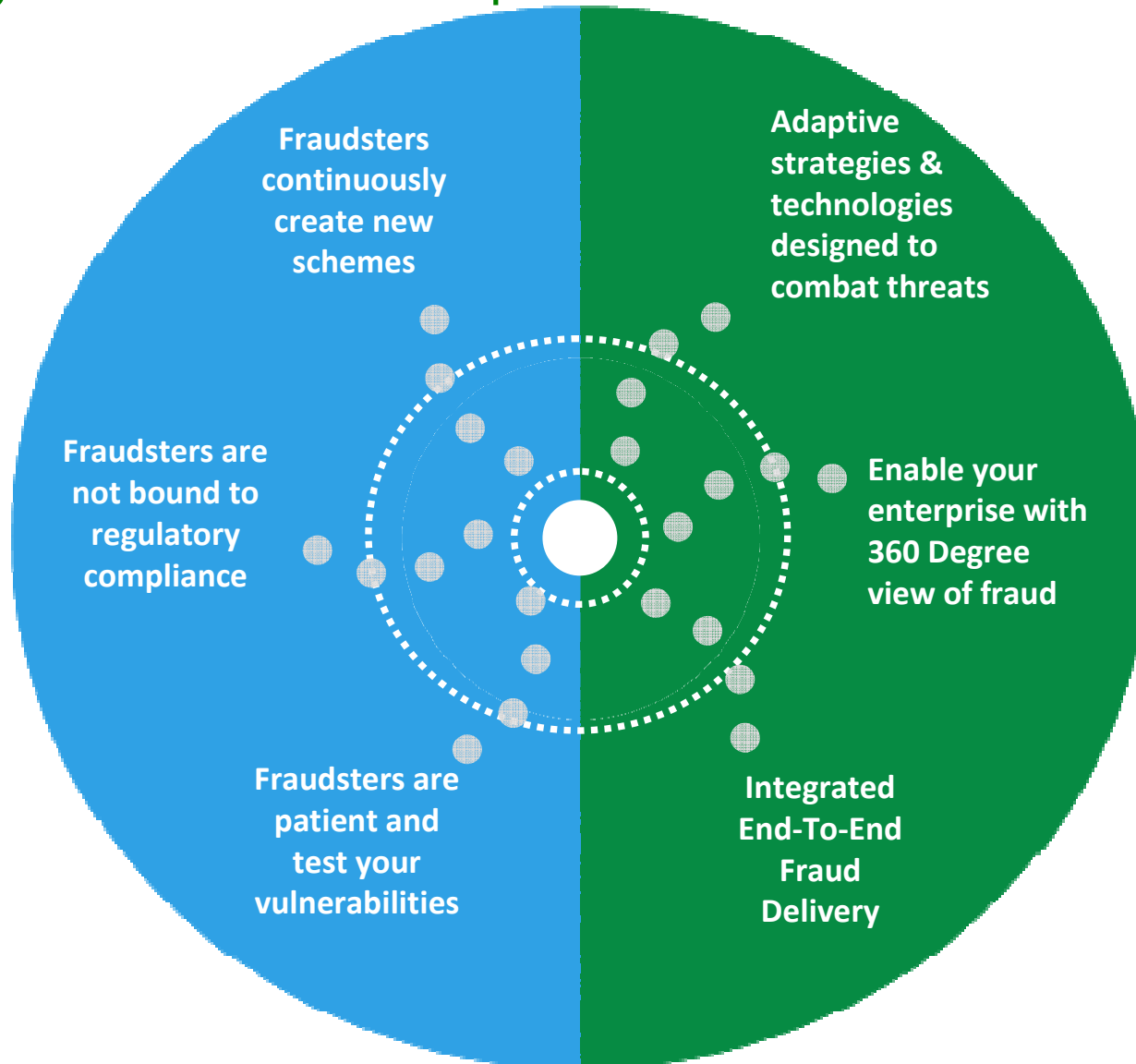
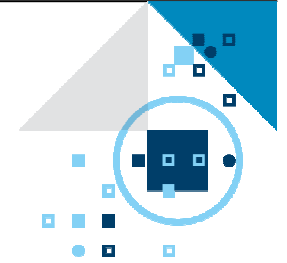
Fraudsters continuously adapt with new schemes to defraud your business



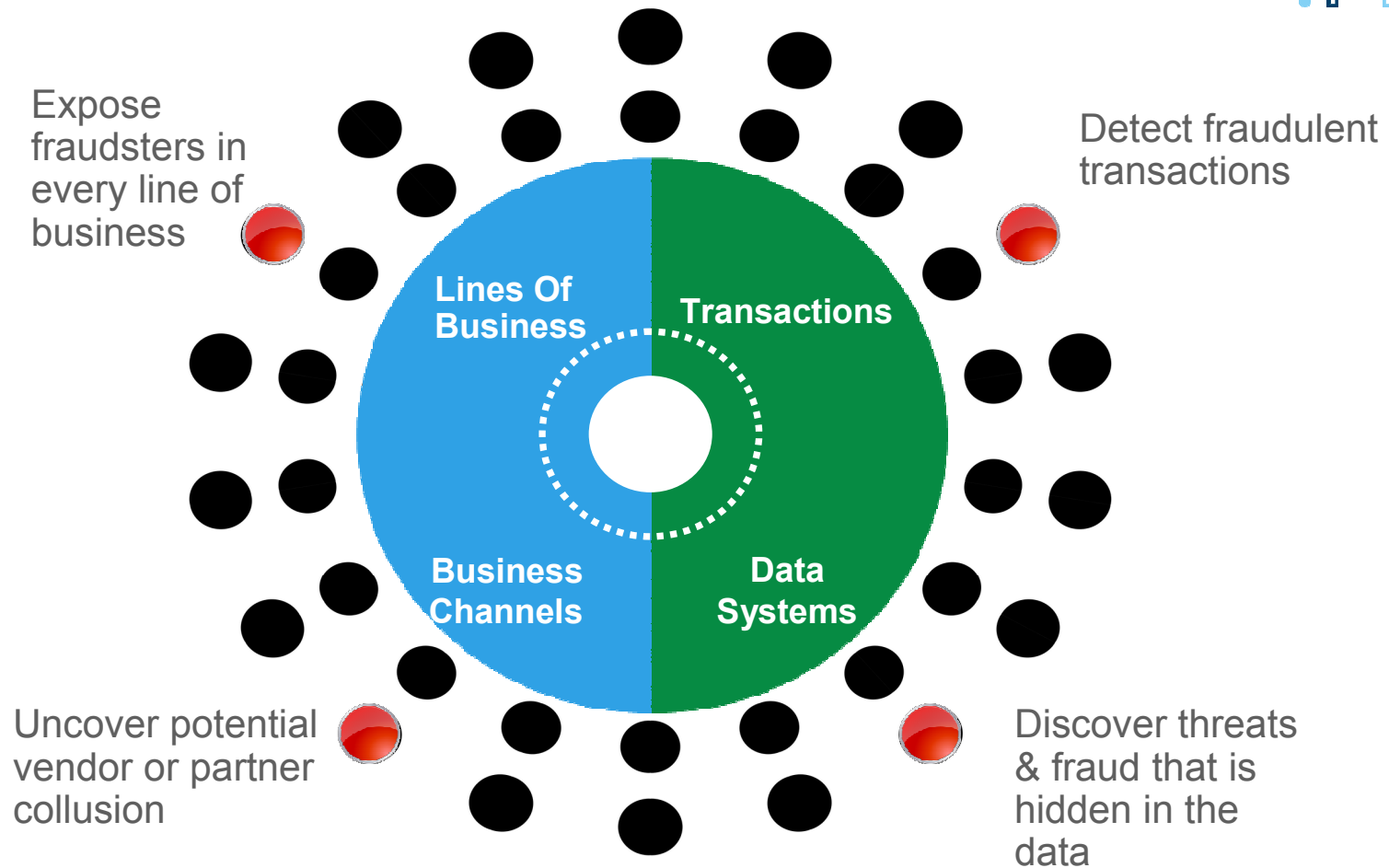
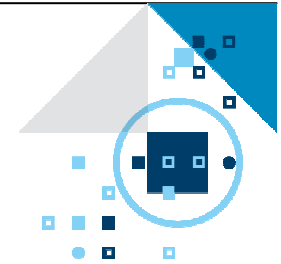
IBM Counter-Fraud Solution



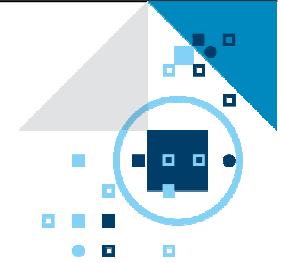
Fraudsters continuously adapt. New technology enables your business to adapt faster.

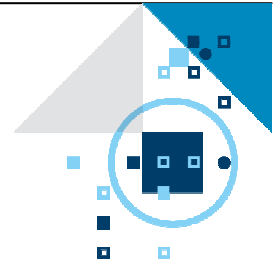


Organizations need to take an enterprise view to combat fraud and gain insights into the potential exposure.

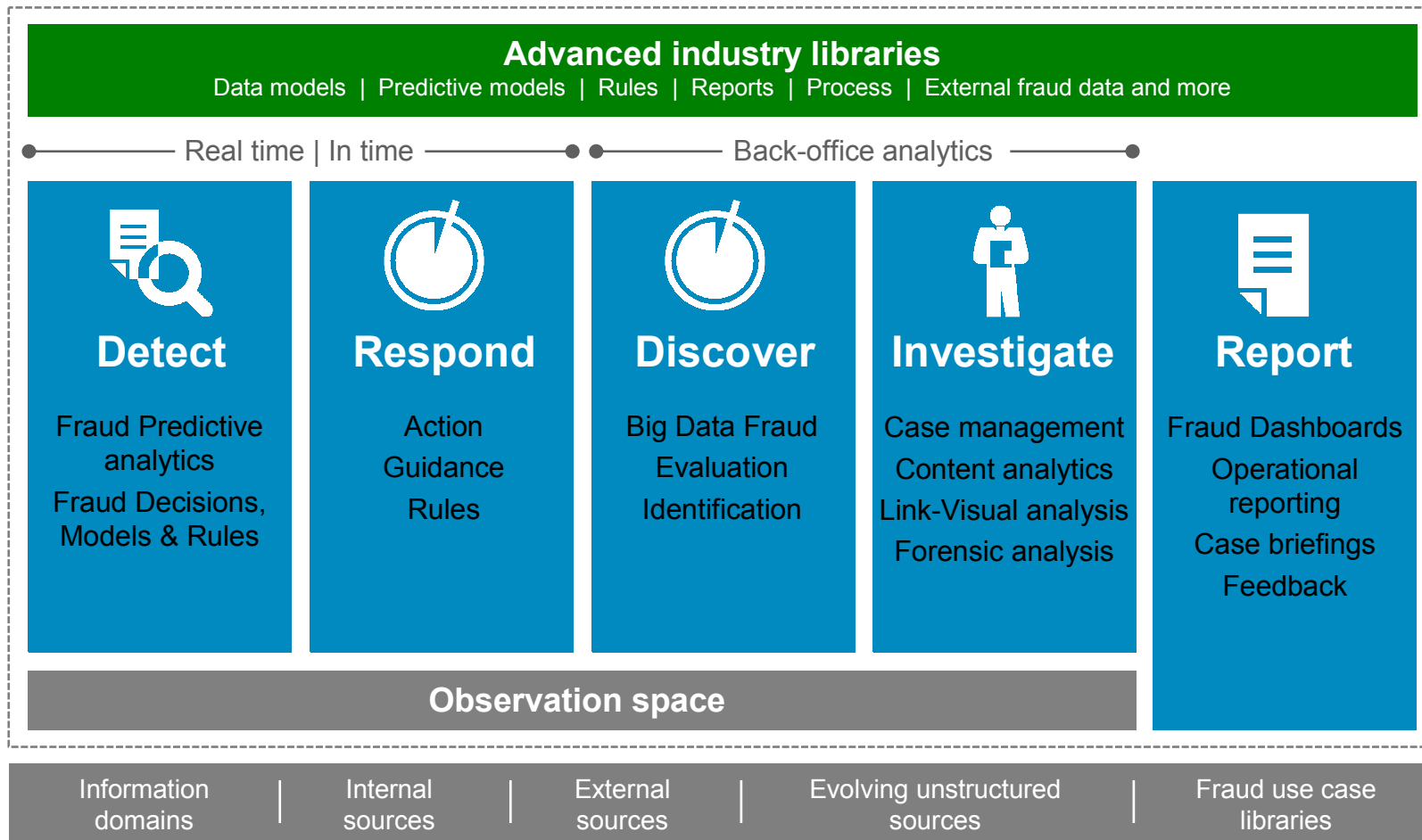


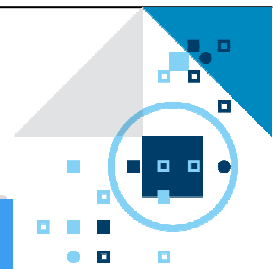
Counter-Fraud management from IBM addresses each phase of an enterprise fraud approach



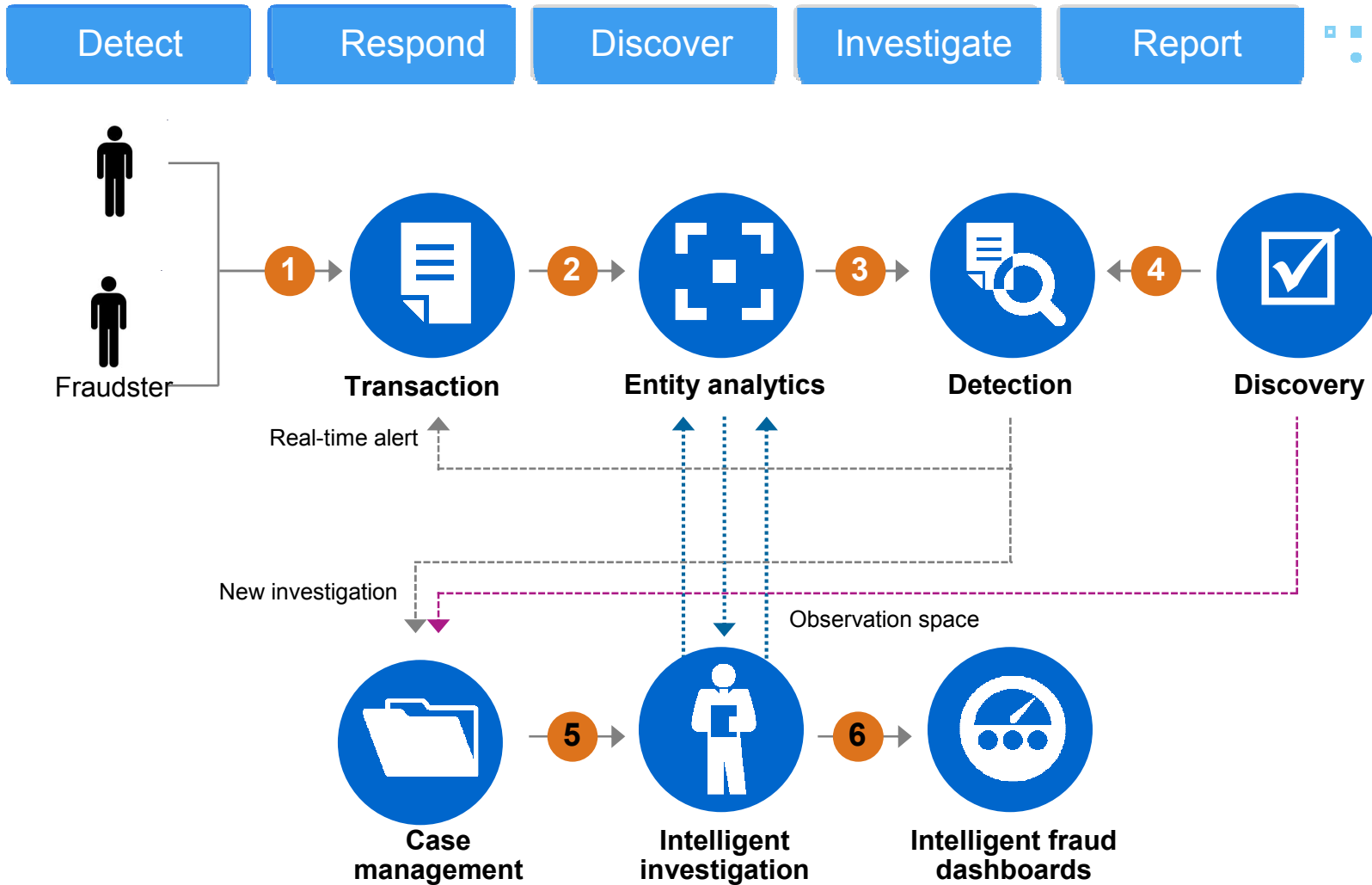


Counter-Fraud management from IBM offers distinctive and robust capabilities

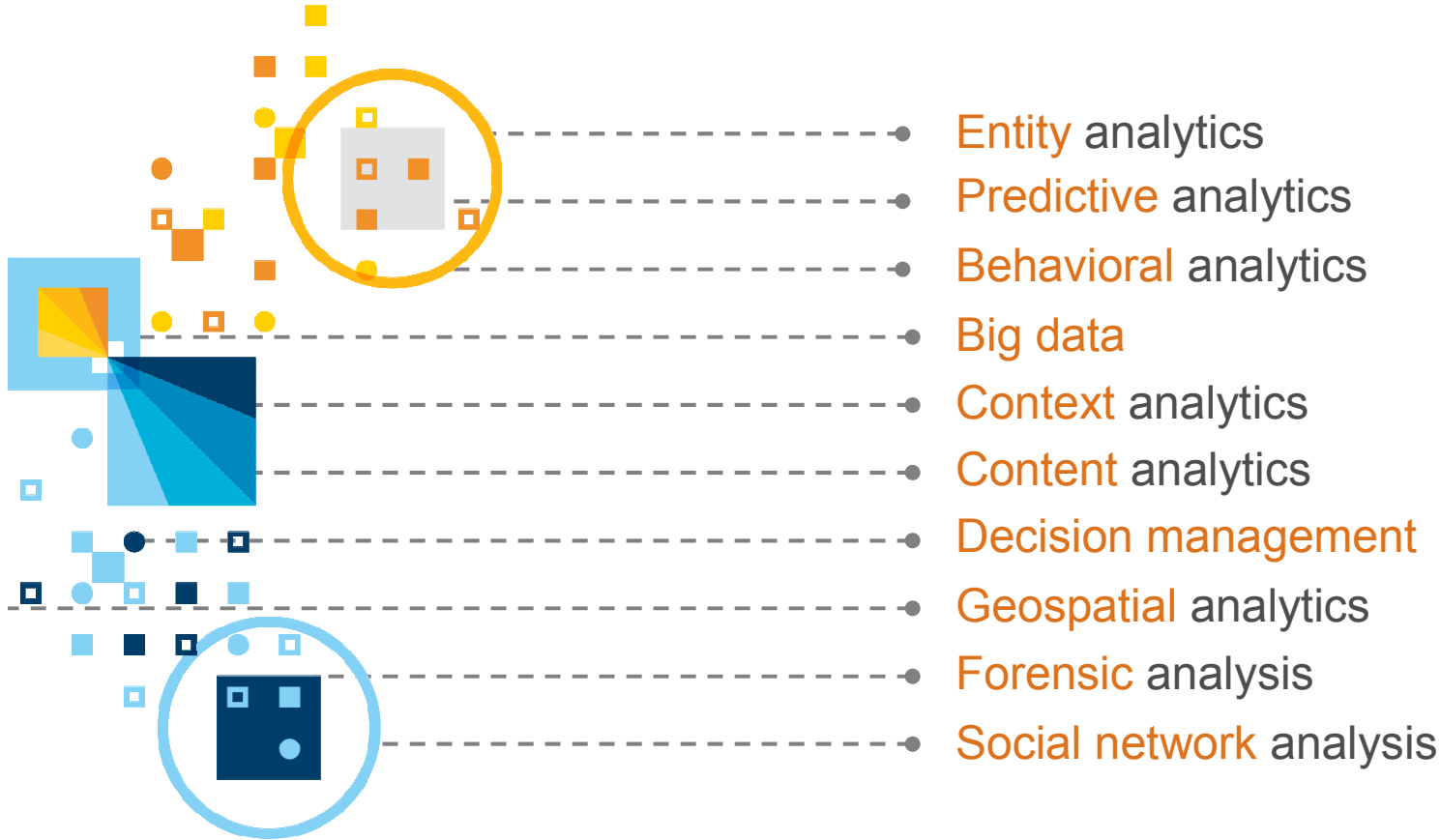
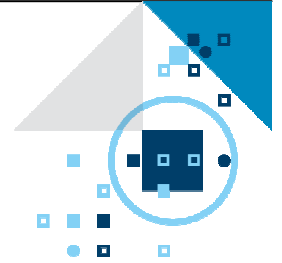




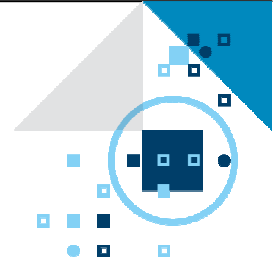
Counter-Fraud scenario walk-through



Counter-Fraud management from IBM employs multilayered analytical techniques



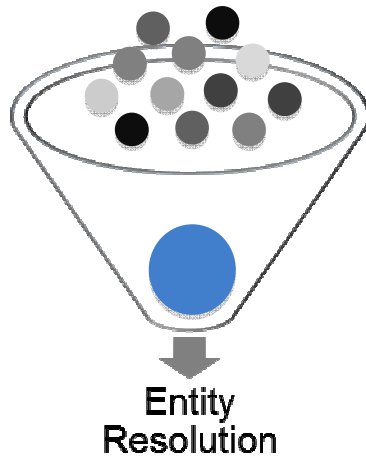
Entity Analytics – “Who is who?” & “Who Knows Whom”



Record #70001
Marc R Smith
123 Main St
(713) 730 5769
537-27-6402
DL: 0001133107

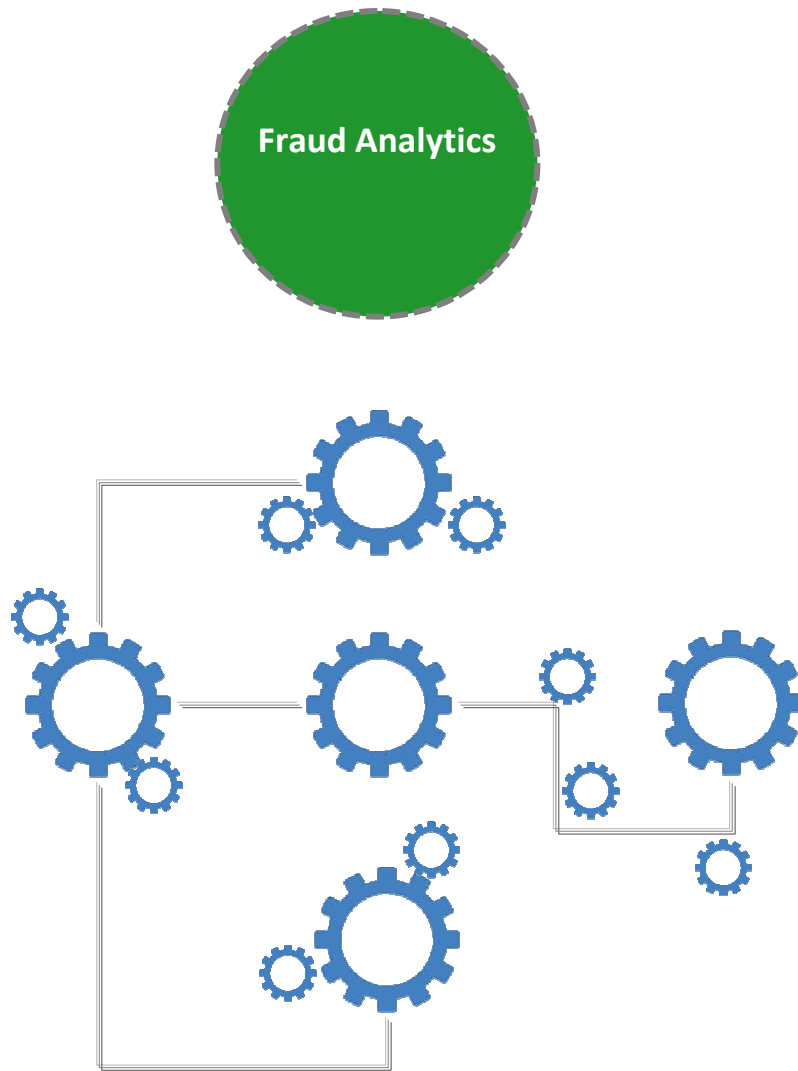
Record #9103
Randal M Smith
DOB: 06/17/1934
(713) 731 5577

Record #6251
Mark Randy Smith
456 First Street
(713) 731 5577
DL:1133107

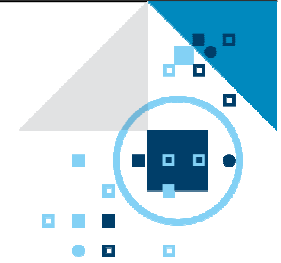


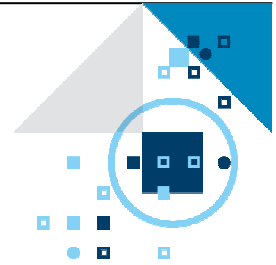
- **Real-time entity resolution and association discovery**
- **Increases detection accuracy**
- **Identifies fraudsters with multiple identities and exposes the truth**
- **Global Name recognition**
- **Proprietary matching engine - rules based, fuzzy logic**
- **Analyst configurable**

IBM Counter-Fraud Analytics:



- Flexibility to blend fraud Rules & Models
- Easily deploy predictive fraud analytics
- Identify fraud patterns and trends
- Leverage text mining to extract critical information from structured or unstructured data
- Real-time entity monitoring
- Business led application



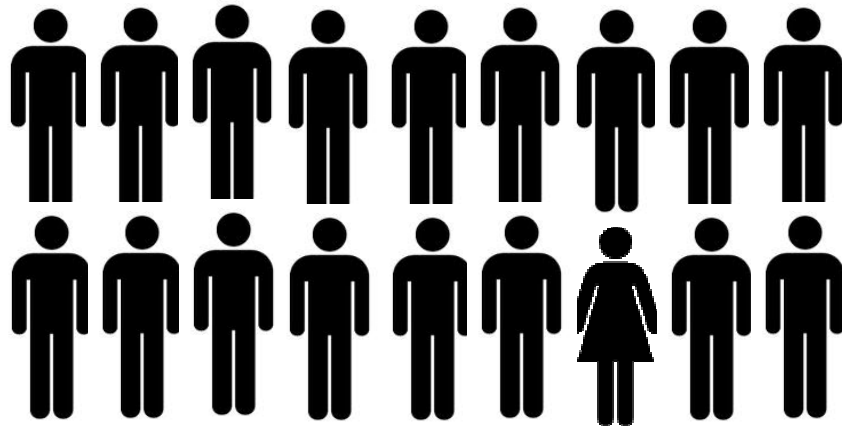
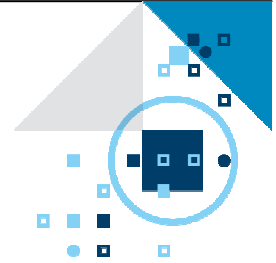


Discover Provider Fraud within Insurance



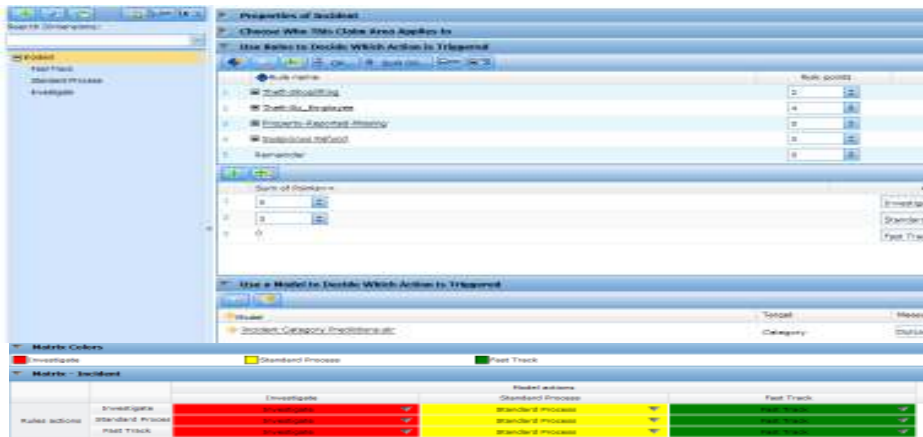
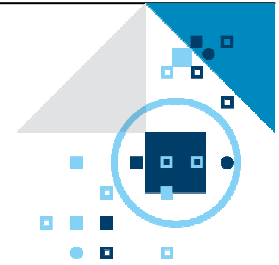
- Discover fraudulent claims related to providers
- Contains over 9,500 pre-built behavior models & risk indicators
- Apply proven models to gain deeper insights into providers associated with claims
- Dramatically drives discovery lift rates
- Use of provider and member watch lists
 - Detect suspicious providers and members retrospectively
- Use of “smart” business rules
 - Generate smart business rules that are based on statistical scoring and outlier detection
 - Easily understood by investigators and can drive substantial revenue recoveries

IBM Counter-Fraud: Anomaly Detection

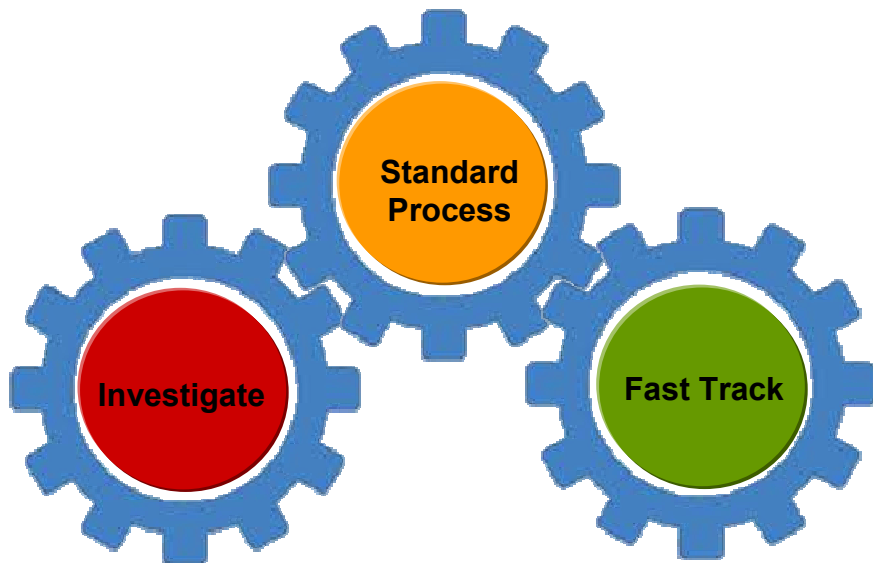


- Leverages structured fraud data such as claims, transactions, social media, collusion, etc.
- Applies text mining to extract critical information from incident notes
- Identify entities that have different behavior from similar entity types
- Alerting specialists to potential loss or fraudulent activity in real time
- specialists can quickly implement the next-best action and route suspicious claims to investigators.
- detects questionable behavior, communications or relationships.

IBM Counter-Fraud: Decision Manager allows business analysts to configure rules and combine models to optimize results

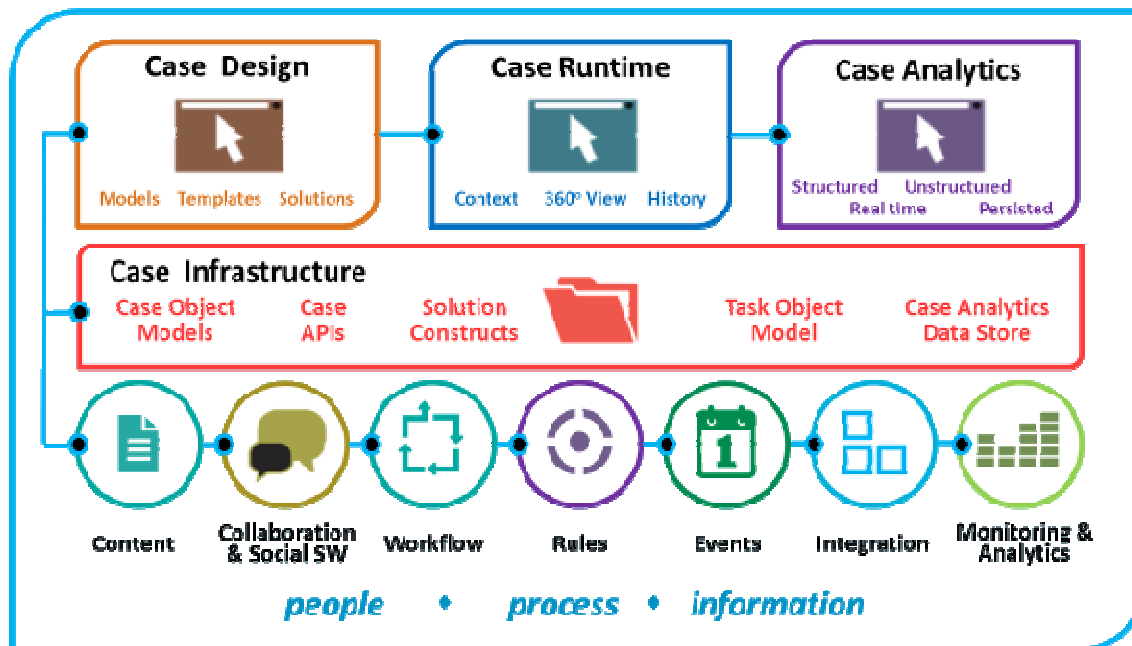
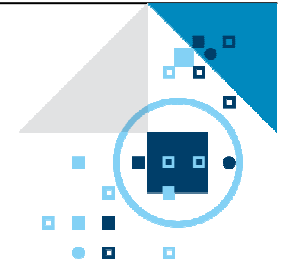


- 1. Flexible and adaptive environment for fraud identification**
- 2. Combines Rules, Predictive Analytics, and Entity/Link Analysis**
- 3. Real-time entity monitoring**
- 4. Business led application**
 - Easily modify rules and decision outcomes
 - Simulation and What/If Analysis

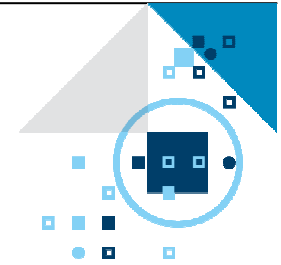


IBM Counter-Fraud: Case Management

Designed with fraud units in mind to manage, assign and report against fraud throughout a transaction or process

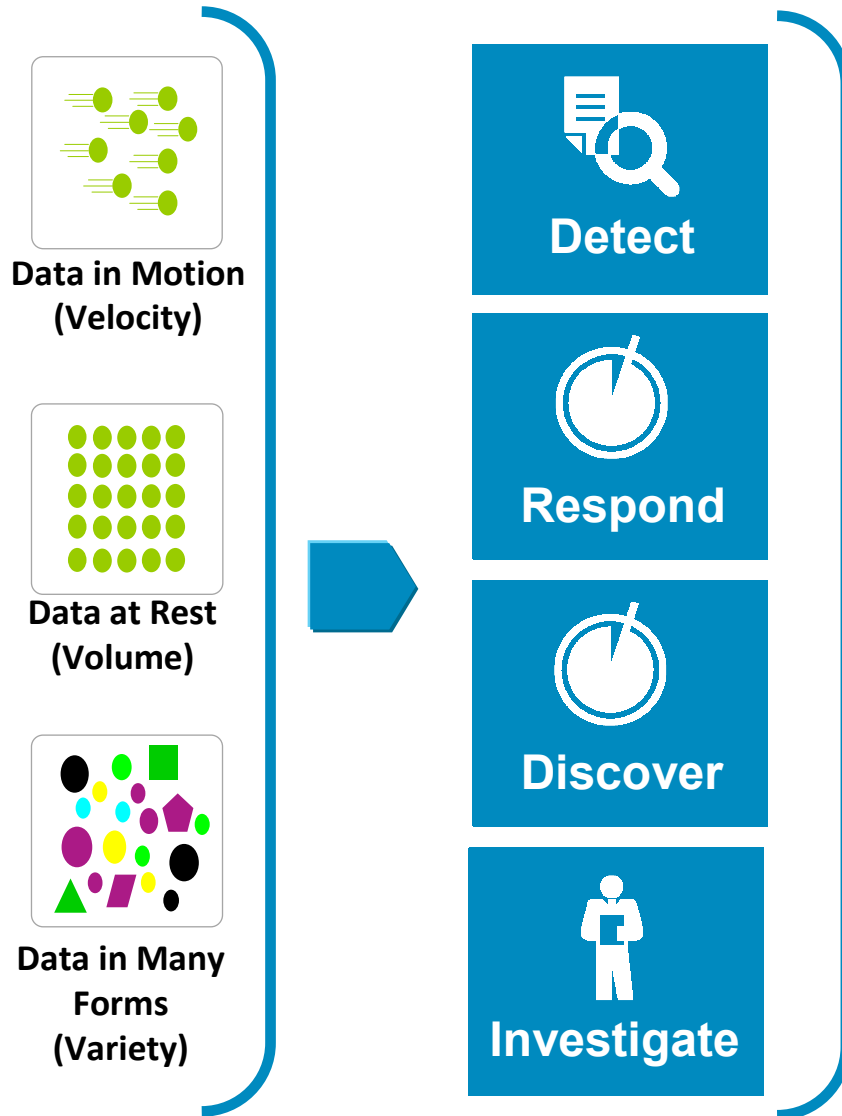


- **Rapid time-to-value; better, faster, more cost effective Fraud investigations**
- **Organizations will not lose sight of fraud cases**
- **Cases are always visible and can be escalated with timers and rules**
- **All information is integrated within the context of a fraud case**

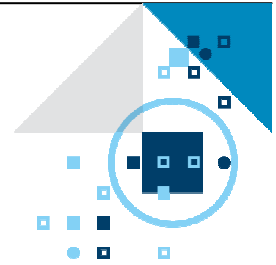


IBM Counter Fraud “Big Data”

Uncover and discover fraud hidden in the data across the enterprise

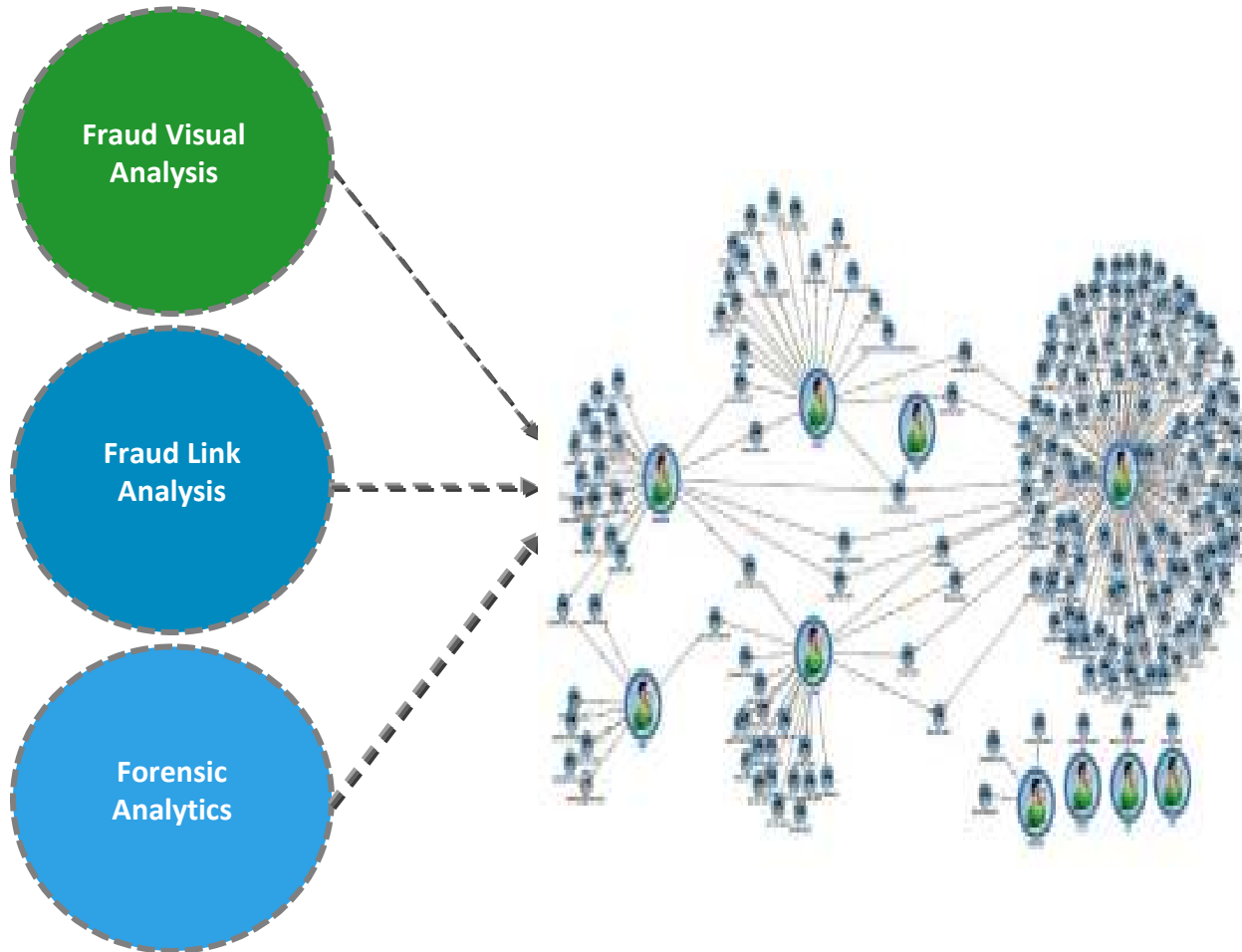


1. Uncover fraud hidden in big data
2. Discover fraud across data types. structured / unstructured
3. Quickly turn data into action within the SIU and claims
4. Leverage the extensibility and scalability to harness the velocity, volume and variety of data in the enterprise

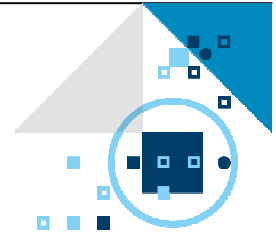


IBM Counter-Fraud Investigations

IBM's Counter Fraud Investigations bring together seemingly unrelated information for high-value awareness and provides sophisticated solutions

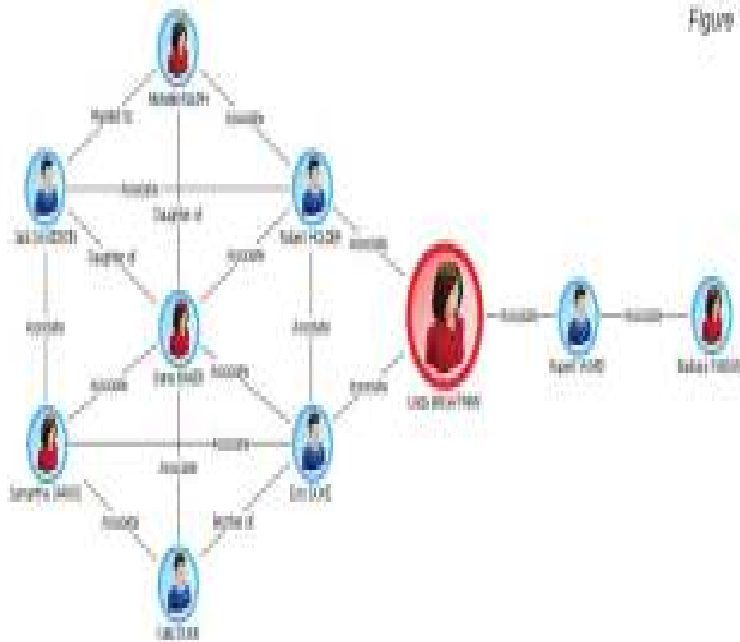


- **Share & Collaborative on fraud intelligence**
- **Powerful forensic discovery**
- **Geo Spatial Analysis**
- **Structured & Unstructured Analysis**
- **Embedded Media Analysis**
- **Powerful Analysis Filters**
- **Combines data extraction, manipulation, analysis and visualization**



IBM Counter-Fraud: Social Network Analysis

IBM's Counter Fraud Investigations bring together seemingly unrelated information for high-value awareness and provides sophisticated solutions

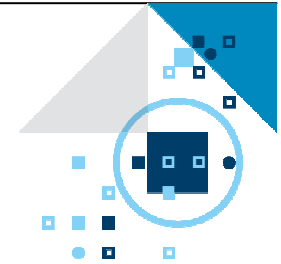


- Visual and mathematical analyses of complex human and computer networks
- Discover sources and distribution of power: Who knows whom; who does business with whom; and who wields greatest power
- See how communications flow in networks and sub-networks
- Monitor patterns between communications nodes, performance and key goals
- Combines data extraction, manipulation, analysis and visualization
- Centrality, Betweenness, Closeness, Degree, Eigenvector, Link Direction and Weight

Counter-Fraud next steps for customers



Please note



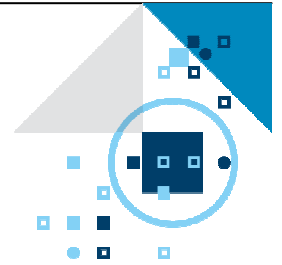
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Thank You!



감사합니다 Natick
Danke Ευχαριστίες Dalu
Thank You Köszönöm
Спасибо Dank Gracias
谢谢 Merci Seé
ありがとう

Grazie

Obrigado