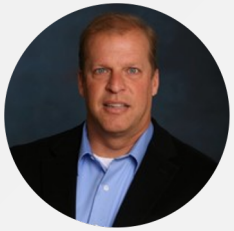
GRAPH+AI SUMMIT organized by TigerGraph

Fight Fraud With TigerShield Anti-Fraud Solution

Today's speakers

TigerGraph



Michel Shaler

VP BUSINESS DEVELOPMENT

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Scott Heath

FRAUD, GRAPH & ANALYTICS

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WEBINAR

Topics

2021 (AML) : What does the future hold?

Complexity and State of AML

Key Features and Issues facing AML - Treasury Changes & Impacts

(Michael Shaler - 18 min)

2021 - What will the Role of ML, GRAPH & Humans be?

How - Graph + Machine Learning combine

(Graham Ganssle, Ph.D. - 18 min)

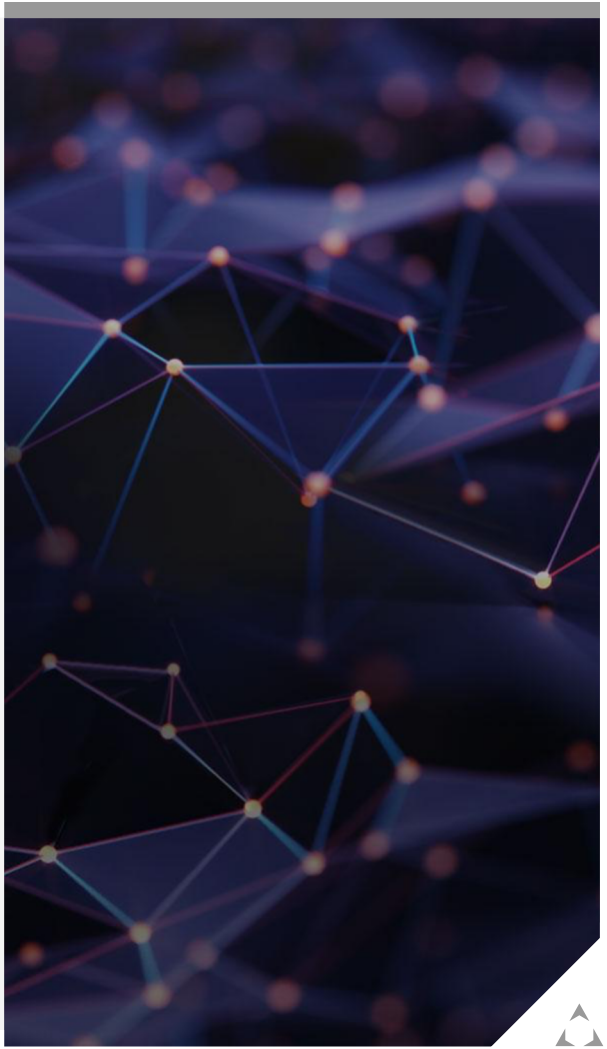
What is in the New TigerShield Solution?

How Does TigerGraph address these issues? Demos of Art of the Possible

(Scott Heath - 18 min)

Q&A

(5 Min)



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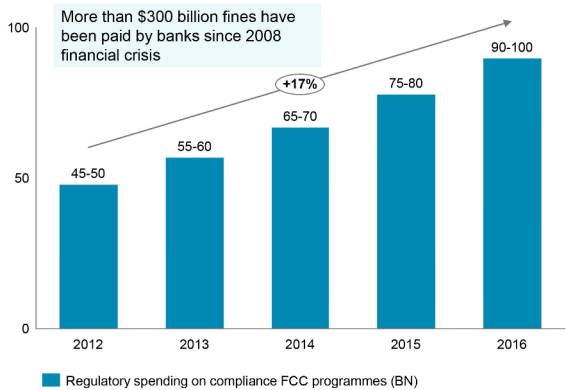


https://www.brinknews.com/financial-crime-compliance-current-global-state-of-play/

UNODC
United Nations Office on Drugs and Crime

The United Nations Vienna 1988 Convention Article 3.1 defines ***money laundering*** as "*the conversion or transfer of property, knowing that such property is derived from any offense(s), for the purpose of concealing or disguising the illicit origin of the property or of assisting any person who is involved in such offense(s) to evade the legal consequences of his actions*".

Three stages of Money Laundering:

- **Placement**: Moving funds from direct association with crimes
- **Layering**: Disguising the trail to foil pursuit
- **Integration**: Making money available to criminals from what seem to be legitimate sources

https://www.unodc.org/unodc/en/money-laundering/overview.html

Total aggregated bank fines in 2020	**$14.21B**
Most common violation	AML breaches

https://finbold.com/bank-fines-2020/

Key Considerations for AML

NOT SMALL $	• UNODC: Money laundering is "2–5% of global GDP, or $800B to $2T in current USD.”
NOT JUST BANKS	• Retail, casinos, real estate, human and drug trafficking, terrorists, and others
NOT JUST RISK SCORING	• Understanding *connected behavior* in space/time is necessary for teams to find financial crimes
NOT JUST KYC	• Effective investigation now needs ***KNOW YOUR CUSTOMER'S CUSTOMER***
NOT JUST HUMANS	• Graph analytics, machine learning and artificial intelligence all help investigators do even better

Lets Get Specific about … Fraud Impact

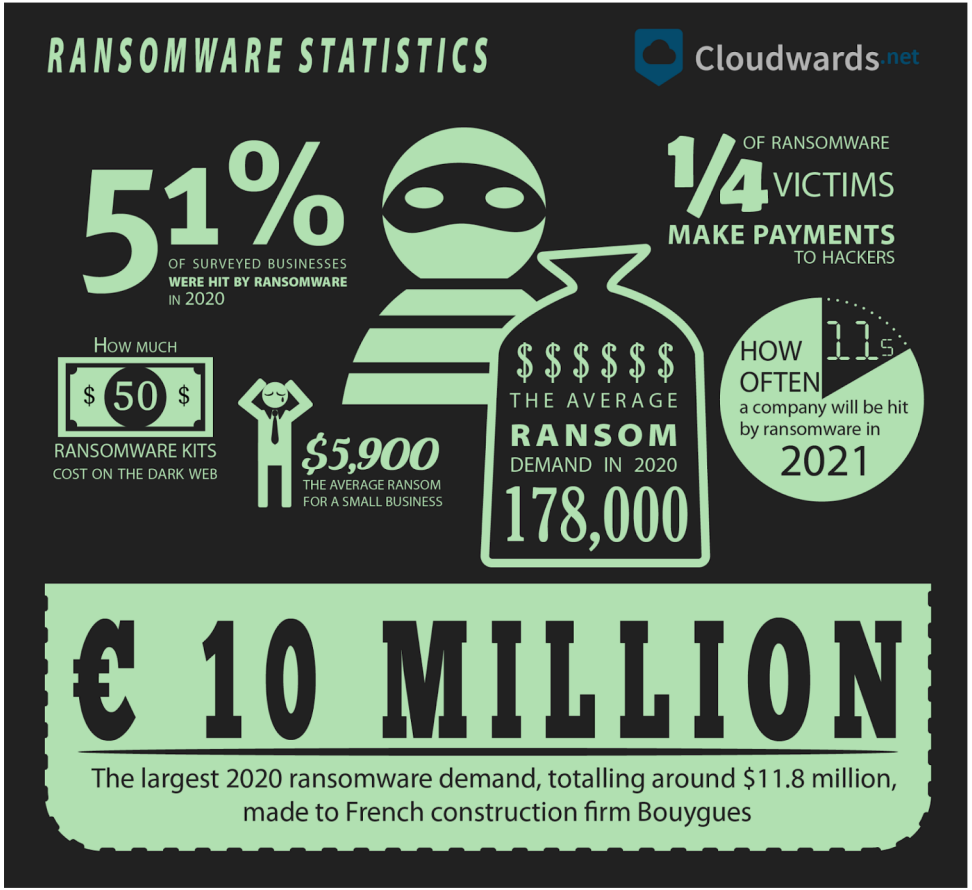
J.P. Morgan paid a $1.7 billion fine for its failures to report suspicious activity relating to the Bernard Madoff Ponzi scheme.[10] Between 1986 and 2008, the scheme was conducted almost exclusively through accounts at J.P. Morgan Chase Bank. Over a multi-year period, multiple red flags were identified. J.P. Morgan was concerned enough that it reduced its financial exposure to Madoff funds in response to those red flags. However, even after J.P. Morgan's UK affiliate reported its concerns to the U.K. authorities, no such report was made in the U.S.

HSBC Bank USA settled claims with regulators, including the Financial Crimes Enforcement Network – or FinCEN, the bureau of Treasury charged with implementing the Bank Secrecy Act or BSA, with penalties exceeding $1.9 billion for failure to have an adequate AML program.[9] Regulators raised concerns of an understaffed AML compliance function, a failure to monitor numerous transactions from high risk jurisdictions, and even the classification of one such jurisdiction as the lowest AML risk category. FinCEN's assessment stated over and over again that HSBC's fundamental flaw was a failure to conduct risk-based evaluations in designing its program

- ***Kevin W. Goodman***
  SEC
  National Associate Director, Broker-Dealer Examination Program
  Office of Compliance Inspections and Examinations

Welcome to the Wild, Wild West…

- **2006**: First ransomware discovered in Russia (TROJ_CRYZIP.A) leveraging ransom payout via earlier variants of cryptocurrency
- **2012**: Reveton began locking out users from computers/networks with false warnings of FBI surveillance
- **2013**: CryptoLocker became first widely-recognizable crypto-ransomware, followed by TorrentLocker, CryptoWall, and Linux.Encoder.1
- **2019**: Baltimore City government = $18M
- **2020**: Cybersecurity Ventures predicts cybercrime will cost the world in excess of $6 trillion annually by 2021, up from $3 trillion in 2015.
- **2021**: Scripps Health attacked on May 1 (ransom undisclosed, hospital operations broadly impacted)
- **2021:** Colonial Pipeline and $5.5 M payment
- **2021:** JBS Meat and $11 M payment



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Fraud Use Cases

Use Cases Drive Outcomes

BUSINESS CASES

- Anti Money Laundering (AML)
- Internal Fraud - Entitlements
- Credit Card & Transaction Fraud
- ID falsification & theft
- Cyber - Malware
- IoT & Asset Fraud
- Audit & Compliance
- Claim, Dispute Charges
- Law Enforcement - Prosecution

INVESTIGATION - VISUALIZATION

- Advanced Visualization
- Dependency | Network Pathing | Routing | Complex Visualization
- Clustering & Community Detection
- Geospatial 'Network Mapping'
- Real Time Data - IoT Systems
- Team based Workbench & Investigation

ML & ANALYTICS

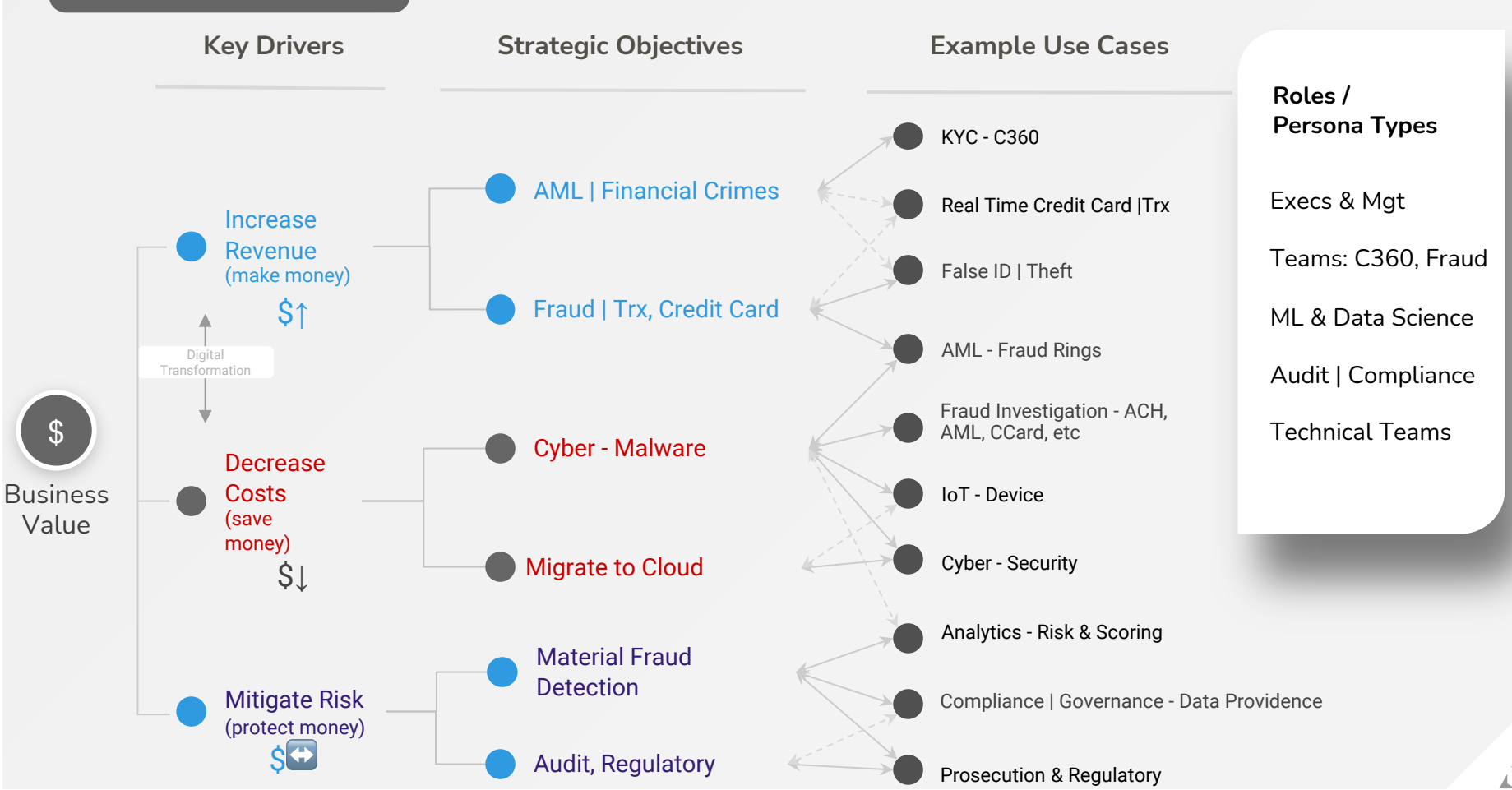
- Patterns - Recommendations
- What If - Planning & Visibility
- Predictive & Analytics
- Scoring and Risk
- Audit & Compliance - Historical
- Targeting Similarities
- Decision Tree Analytics

2020 AML Legislation - How Tiger Fraud Can Help?

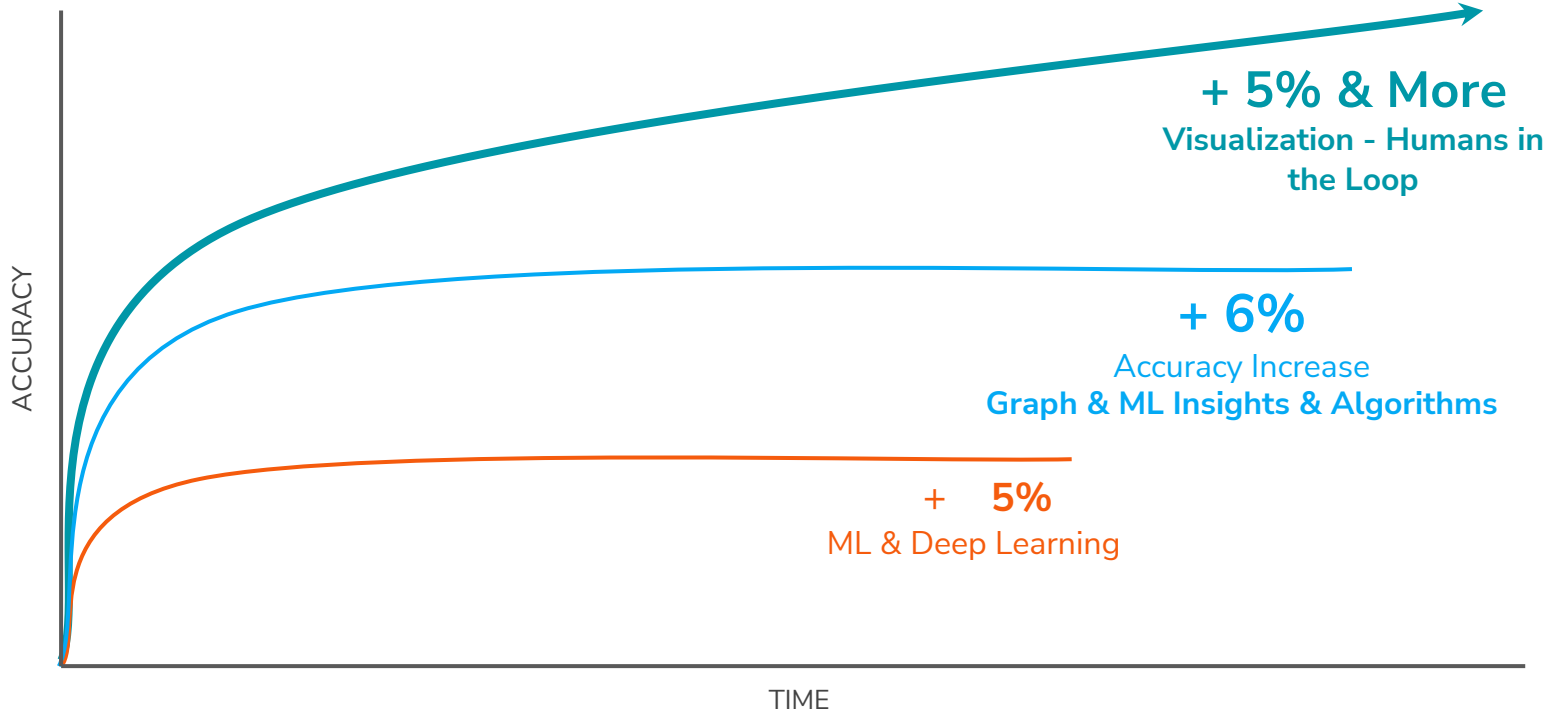
The Anti-Money Laundering Act of 2020

Codification	Codification of risk based approaches that include ML, Boolean logic and Graph algorithms allow for higher accuracy, lower false positives and easier maintenance and more complete documentation and reports. The increase of connected data including people, organizations, ownership, transactions and other Non Obvious relationship management and deep link investigation capability via a Graph Database technology
Modernization	Modernization of traditional SQL and flat file information systems with the ability to have a flexible and easy maintain data model. The ability to allow for massive growth and data access in real time
Expanding Enforcement	Process improvement, higher quality documentation and detailed alerts, workflow and cases mean better preparation for audits. The ability to easily secure and share data at an atomic field and obfuscated data level for US Govt and bank to bank data sharing.
Disclosure	The ability balance and de-risk AML programs with the ability to flexibly create and manage risk models, scores and other internal flags and monitoring systems for creation of effectiveness goals and programs
Sharing - Coordination	The ability to share and coordinate in with complex data easily and securely. This includes Bank - Bank, Bank to Govt enforcement and internal data sharing ability
De-Risk	The ability to increase accuracy, decrease false positives, and escalate and resolve investigations with as little friction as possible

FRAUD USE CASES



Provide Accuracy Boost & False Positive Reduction ~16%+



Top Trends in Data and Analytics For 2021

Accelerating Change

1. Smarter, Responsible, Scalable AI
2. Composable Data and Analytics
3. Data Fabric is The Foundation
4. From Big to Small and Wide Data

Operationalizing Business Value

5. XOps
6. Engineering Decision Intelligence
7. D&A as a Core Business Function

Distributed Everything

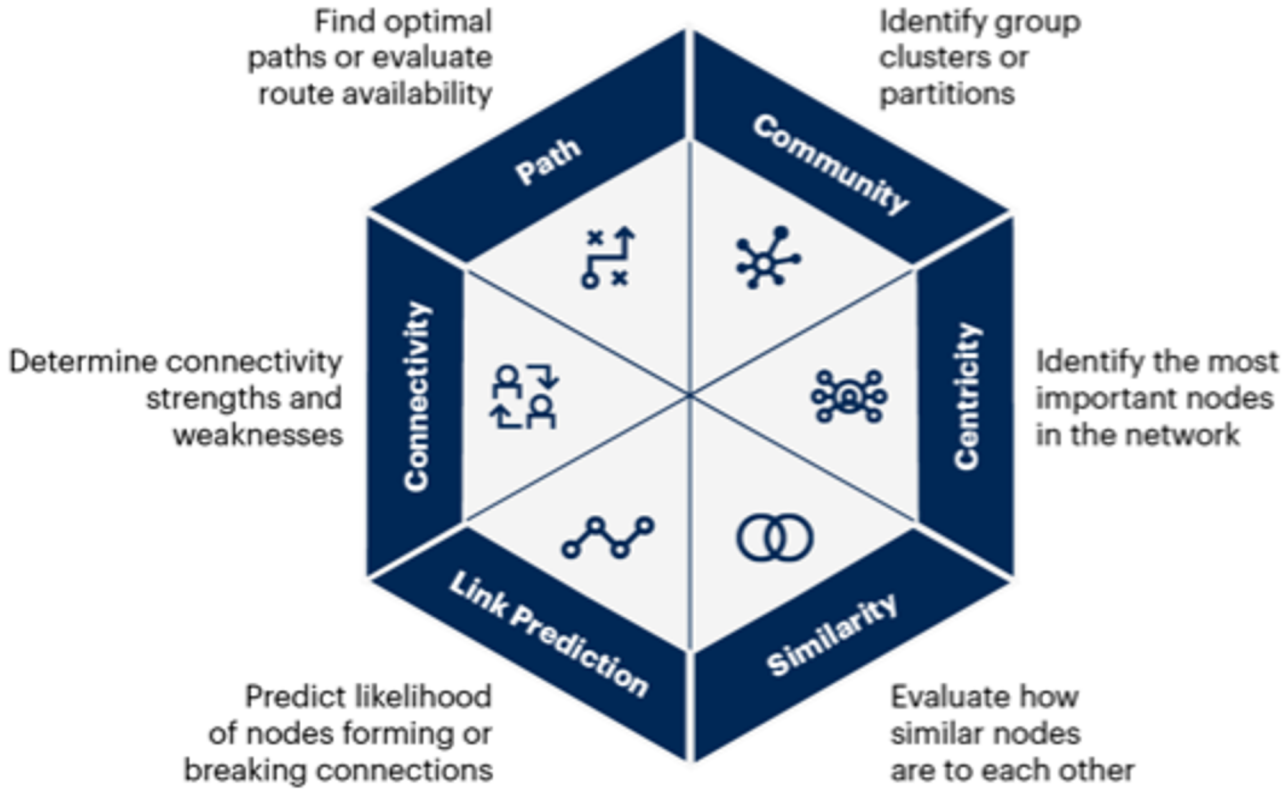
8. Graph Relates Everything
9. The Rise of the Augmented Consumer
10. D&A At the Edge

Source: Gartner

729348_C

Gartner

Six Main Types of Graph Analytics



Source: "Understanding When Graph Technologies Are Best for Your Business Use Case" Jim Hare et al, 2020

Gartner COOL VENDOR 2020

FORRESTER® WAVE LEADER 2020 Graph Data Platforms

Gartner®

Credit Card Fraud

Customer need

- Complex Investigation - community detection for potential criminal cohorts : Transaction, Cookie, Contact, Credit Card Data
- Massive Real time Transaction ingest & Automate Alerts
- Fraud rings identified for further scrutiny to better investigators

Business Drivers

- Replace Current Graph Technology
  - Entire corporate dataset could be processed together
  - Large & Complex - 4 Billion+ Nodes & Vertices (10yrs data)
- Expensive & Labor intensive investigations

Delivered Functionality

- 6 mth Graph product shootout - Replace Neo4J
  - Massive Transaction benchmarks on various platforms
- Fraud Analytics
  - Programmatic data pre-processing
  - Full graph processing for computing influence (PageRank) and community detection (Louvain)

Benefits

- Enterprise Enablement - Massive Scale & Complete in real Time
- Lower TCO - by 50%

usbank

Regulators fine U.S. Bank more than $600M for AML errors

By Kate Berry February 15, 2018, 10:44 a.m. EST 2 Min Read

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AML - Case Study

Customer need

- **False Positive Reduction** - Real Time reduction of false positive for AML Investigations
- **Increase Accuracy** - Use Graph Connections to surface real deep link or 'non-obvious' relationships
- Graph Analytics - Allow lay investigators to use power or deep line, ML & automated pattern detection

Business Drivers

- Bolt Onto Existing : Oracle, Actimize & Custom Rules engines
- ML, Analytics & Graph Technology Platform Enablement
  - Entire corporate dataset could be processed together
  - Large Complex - 4 Billion+ Nodes & Vertices (10yrs data)
- Automate Labor intensive investigations

Benefits

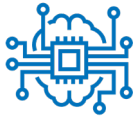
- 10% increase of Accuracy ~$20M
- Avoid Fines - $2 - 4M a year
- ~$10 Min in Manual process automation - Learn from historical AML & create 'Real Time' system to minimizing expensive manual investigative time

TigerGraph is the only scalable graph database for the enterprise

Founded in 2012 , HQ in Redwood City, California

Advanced Analytics & ML on Connected Data

Enterprise Scale Database **40-300x** faster than competition



Foundational for AI and ML solutions

Concurrent **OLTP** & **OLAP** Workloads

GSQL

SQL-Like Query Language

OnPrem, SaaS & Cloud Marketplaces

Global teams located in **4 continents**

Our Customers Include The **Largest** Companies in:

Finance

Healthcare

Telecom

Media

Utilities

Cybersecurity

Ecommerce

Retail

FORREST WAVE
Nov 2020
Recognized as one of the top 5 leaders along with Neo4j, AWS, Azure & Oracle

GARTNER
May 2020

INSIDE BIGDATA
2018 | 2019 | 2020

DBTA 100
2019 | 2020

GRAPH+AI SUMMIT

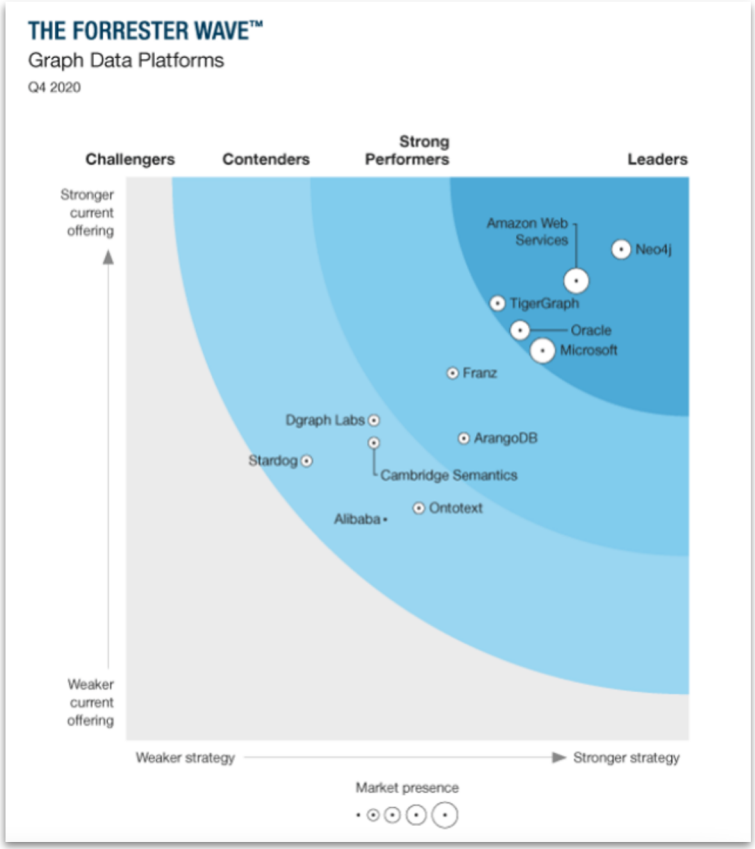
SoftBank

TIGERGLOBAL

Forrester Research recognizes TigerGraph as a Leader

Forrester says, “Customers like TigerGraph's speed, language, ease of deployment, performance, visual tooling for graph schema/query, and support for both transactional and analytics use cases in the same instance.”

Download the full report here.



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TigerGraph Scores Perfectly On 9 Key Criteria for Enterprise Deployments

Perfect scores were awarded for:

- Scalability
- Performance
- Workloads
- Transactions
- Queries/search
- Data loading/ingestion
- API/extensibility

TigerGraph also received the highest possible score in the community criterion in the "strategy" category and in the global presence criterion in the "market presence" category.

Download the full report here.

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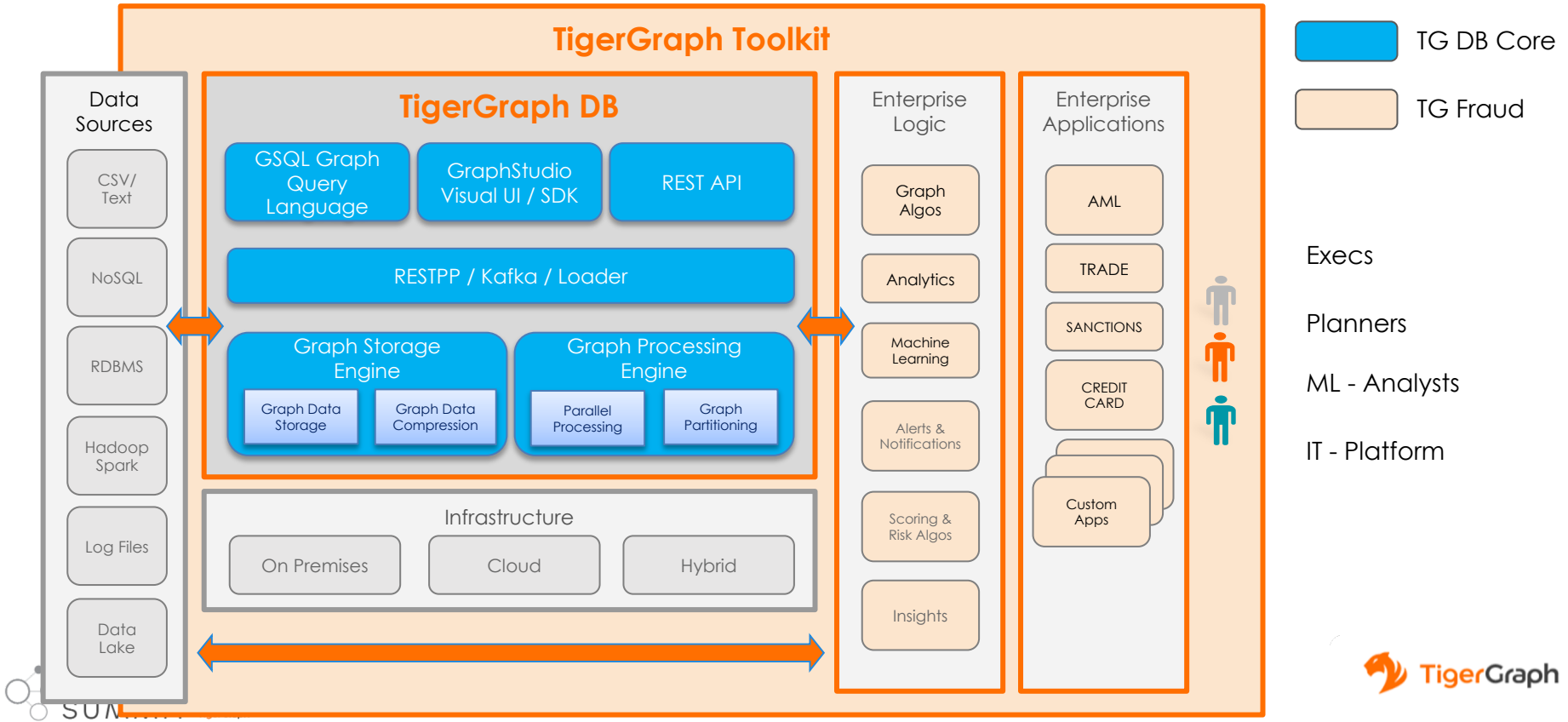
Tiger Fraud | Total Approach - TigerGraph Platform



TigerGraph

TigerShield Solution Focus

- Increase Accuracy
- Decrease False Positives
- Utilize My Current Technology
- Increase Speed & Efficiency
- Adapt to Govt Changes Faster
- Modular Total Solution
- Powered By TigerGraph

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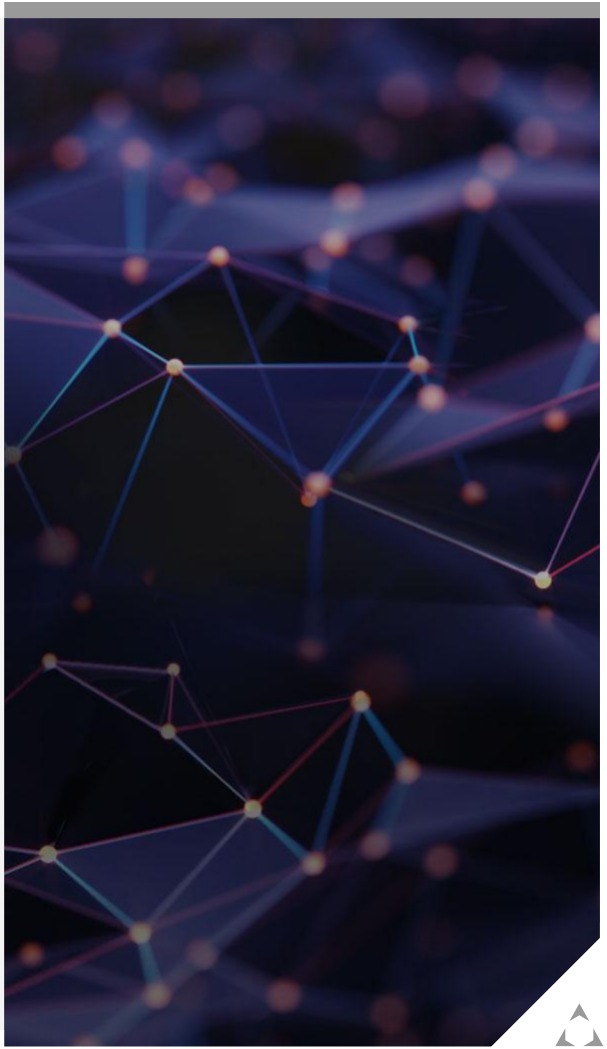

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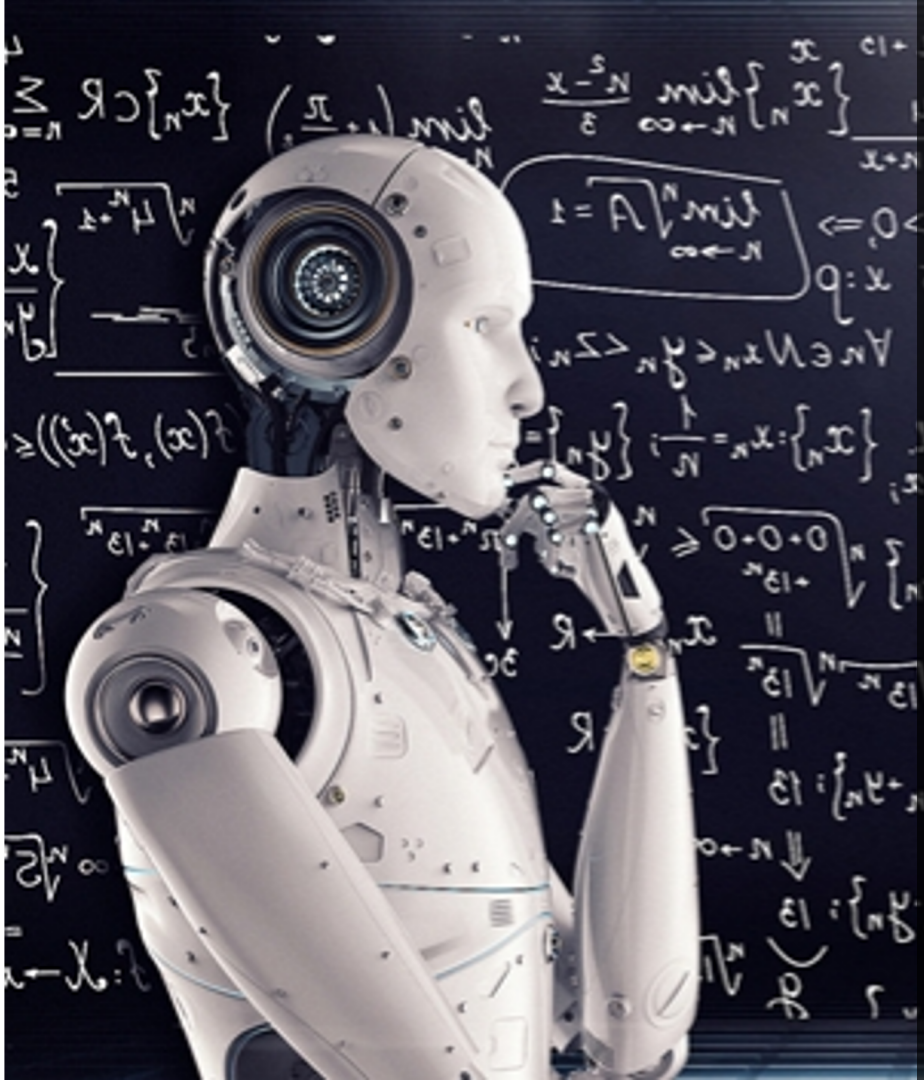


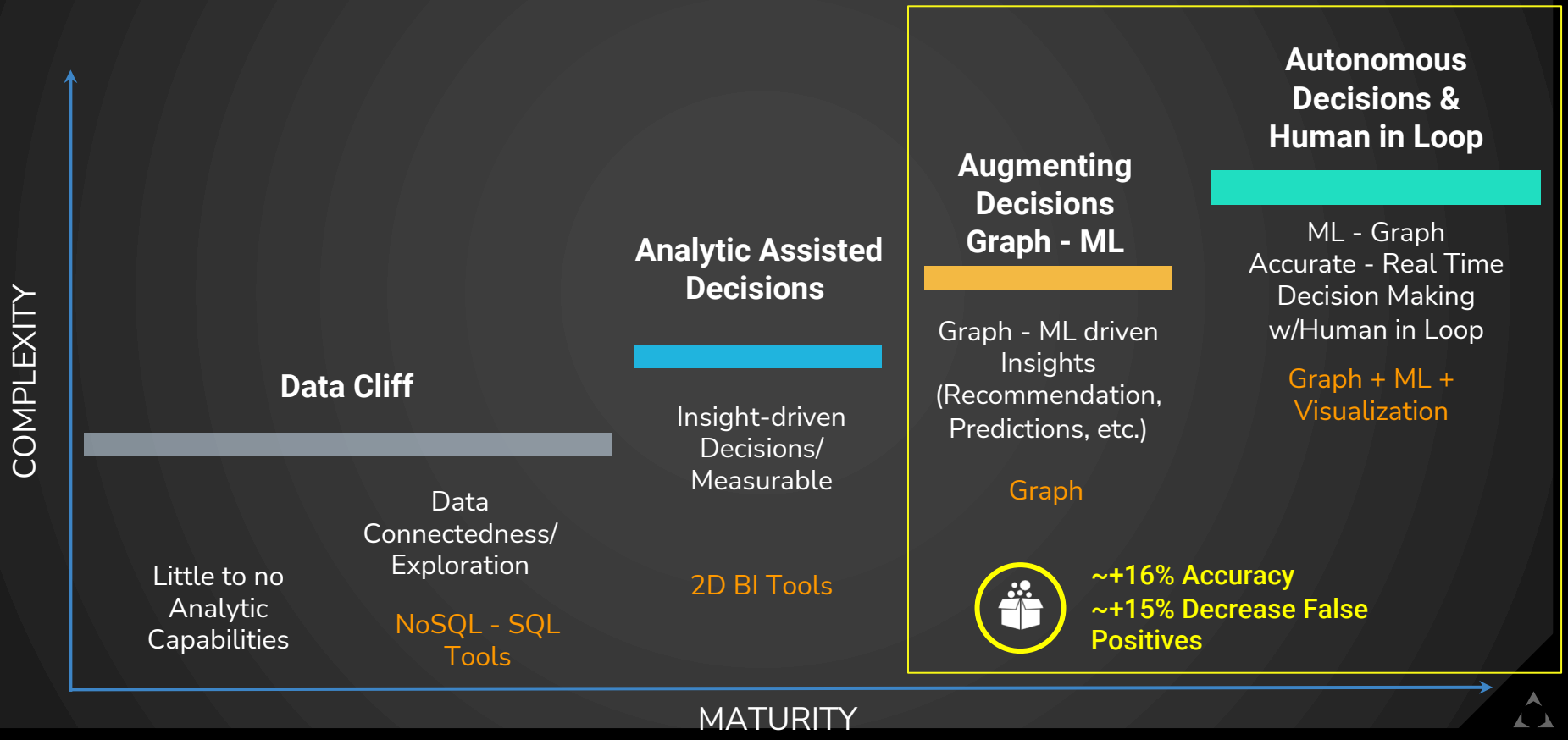
How Tiger Fraud Work?
Data Science, Graph And Domain Expertise

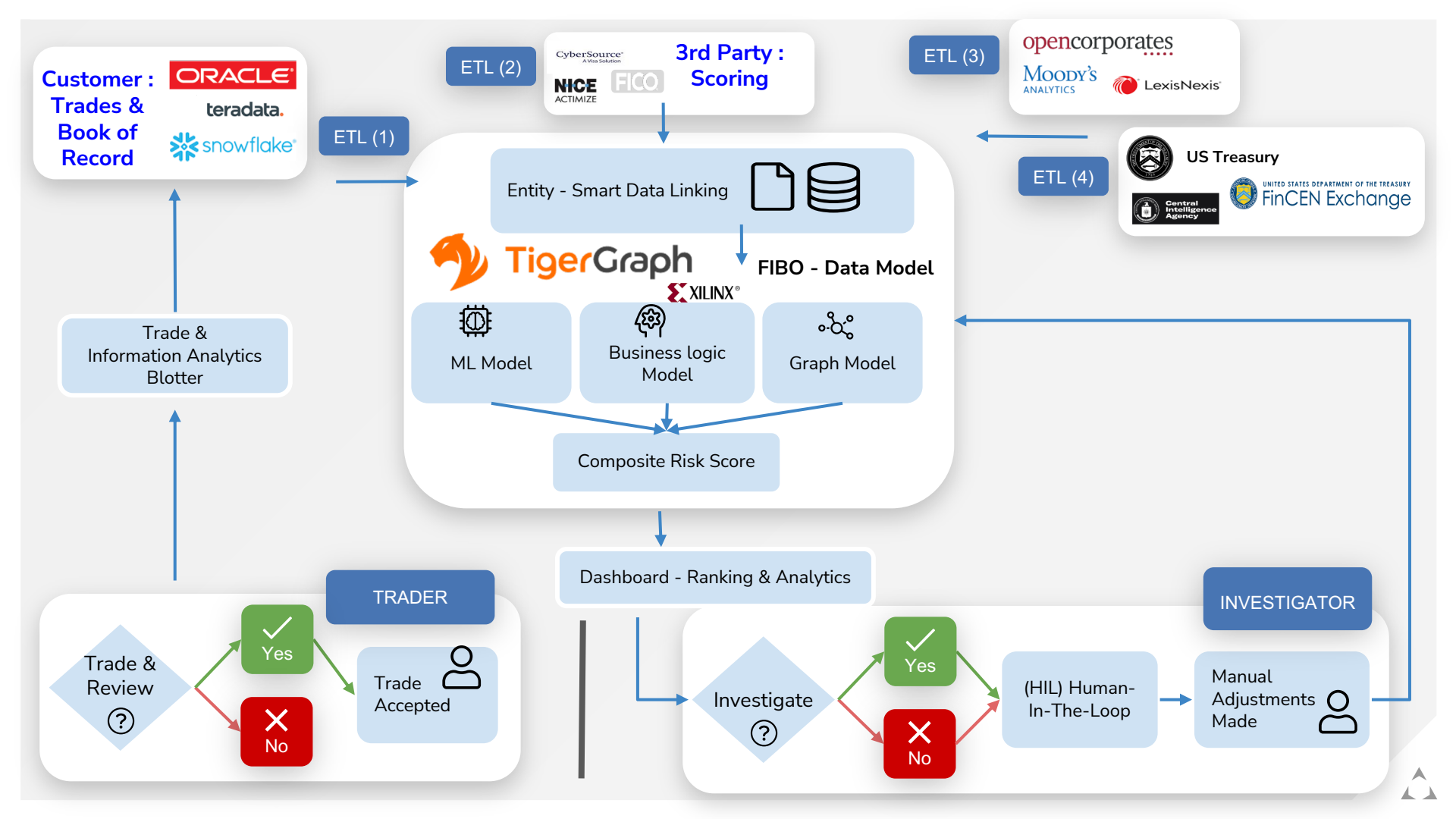
why is data science + ML interesting in this domain?

Resources:

ML Blog Posts

Maturity Toward Graph, Visibility + Human in the Loop




Customer : Trades & Book of Record
ORACLE
teradata.
snowflake
ETL (1)
ETL (2)
CyberSource
NICE ACTIMIZE
FICO
3rd Party : Scoring
ETL (3)
opencorporates
Moody's ANALYTICS
LexisNexis
ETL (4)
US Treasury
Central Intelligence Agency
UNITED STATES DEPARTMENT OF THE TREASURY
FinCEN Exchange
Entity - Smart Data Linking
TigerGraph
FIBO - Data Model
XILINX
ML Model
Business logic Model
Graph Model
Composite Risk Score
Trade & Information Analytics Blotter
Dashboard - Ranking & Analytics
TRADER
Trade & Review
Yes
No
Trade Accepted
INVESTIGATOR
Investigate
Yes
No
(HIL) Human-In-The-Loop
Manual Adjustments Made

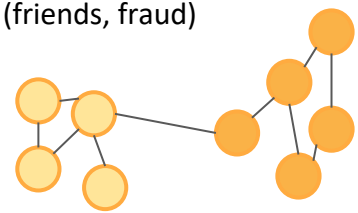
Key TigerGraph Functions

- Levenstein
- Louvain
- Strength of Connection
- PageRank

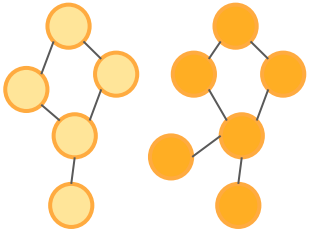
High Level Use of Algorithms for Anti-Fraud

Dependencies
- Failure chains
- Order of operation

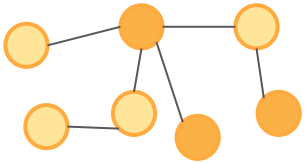
Clustering
Finding things closely related to each other (friends, fraud)



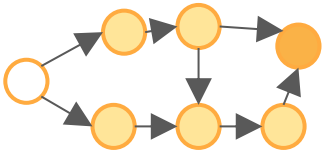
Similarity
Similar paths or patterns



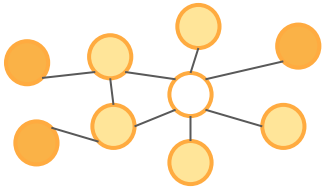
Matching / Patterns
Highlight variant of dependencies



Flow | Follow the $$
Find distribution problems, efficiencies



Centrality, Search
Which nodes are the most connected or relevant



Included Algorithms

Explainable ML/AI

GRAPH

Clustering

Betweenness

Similarity

Degree

Page Rank

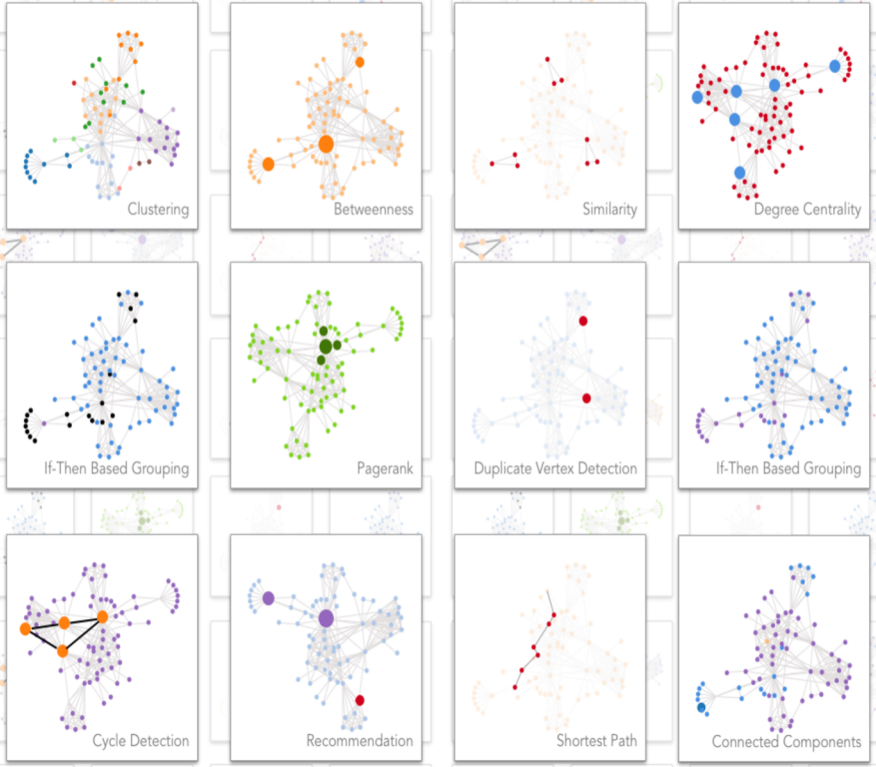
Recommend

Shortest Path

Connected

Centrality

Detection



MACHINE LEARNING

Graph Convolutional Networks (GCN)

Temporal Pattern Detect

Louvain

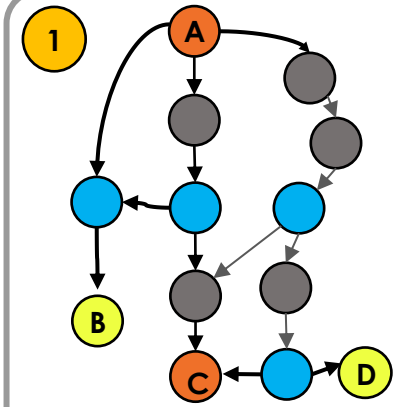
Dependency Networks (RPN)

Markov Networks (RDN)

Probabilistic Models (PRM)

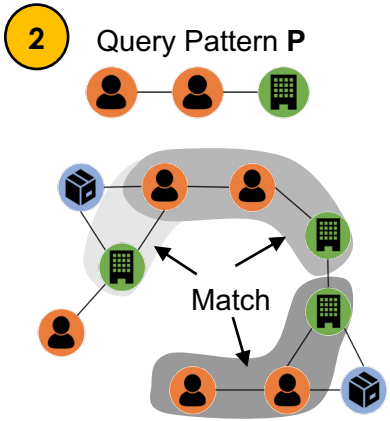
7 Key Data Science Capabilities Powered By A Native Parallel Graph

1 Deep Link Analysis



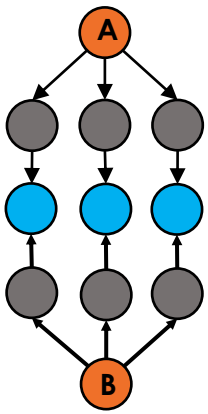
From a set of entities (e.g. customers, accounts, doctors), show all links or connections

2 Multi-dimensional Entity & Pattern Matching



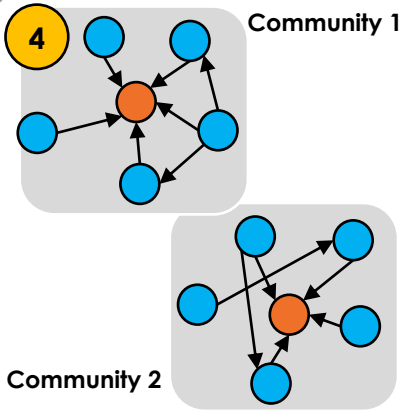
Given a pattern (e.g. a type of suspicious activity), find similar patterns in the graph

3 Relational Commonality Discovery and Computation



Given 2 entities (e.g. customers, merchants, devices), follow their relationships to find commonality

4 Hub & Community Detection



Find most influential members (customers, doctors, citizens) & detect community around them

5	**Geospatial Graph Analysis**	Analyze changes in entities & relationships with location data
6	**Temporal (Time-Series) Graph Analysis**	Analyze changes in entities & relationships over time
7	**Machine Learning Feature Generation & Explainable AI**	Extract graph-based features to feed as training data for machine learning; Power Explainable AI

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TigerGraph

ML + Graph | Detailed Steps in Prediction Process

X[n]

K

N-1

Feature extraction from graph showing its performance under conditions A, B, C

2

Projection into Retail Customer - Fraud graph.

1

3

ML analysis says: under condition X, Y, Z, this instrument will perform like this

Hidden layer

Hidden layer

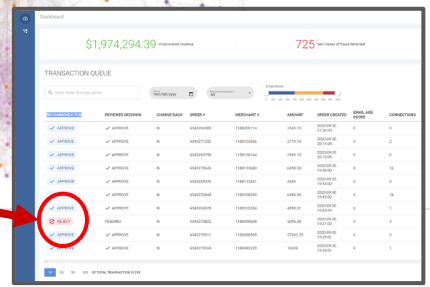
Input

ReLU

ReLU

Output

4



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Prediction about Fraud Trx

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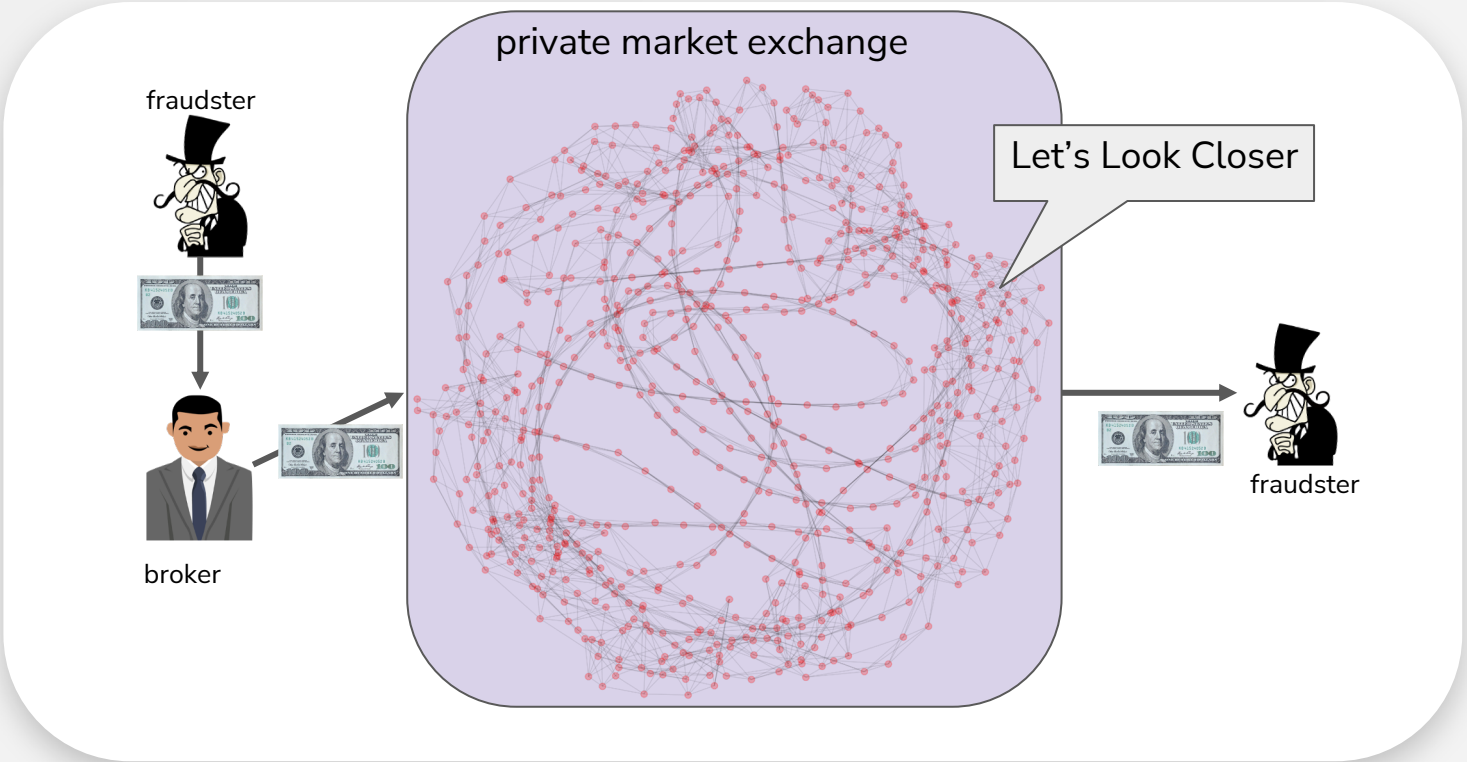
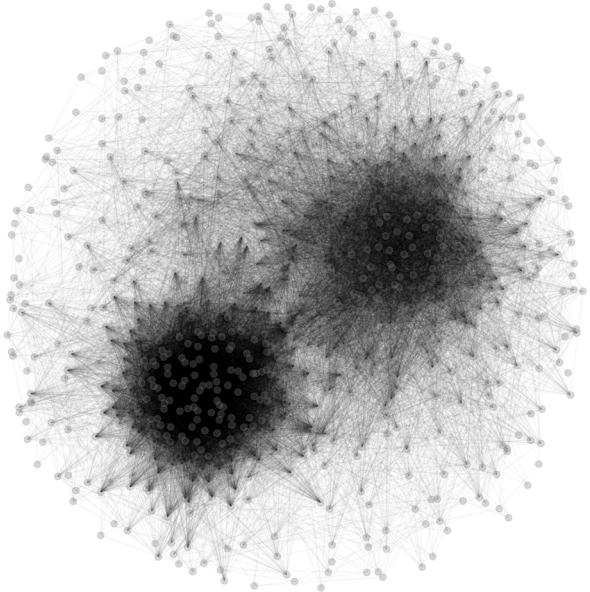
Trade AML Detection - Round Tripping

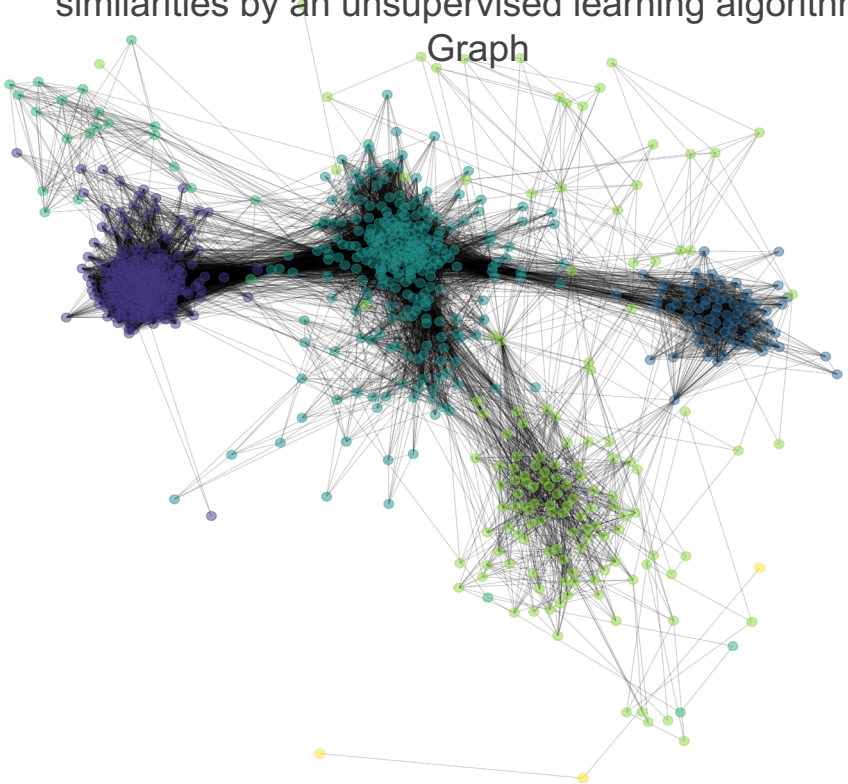


Fraud - Identity Lookalikes

Unstructured graph of Unrelated Fraud Transactions



Same graph, automatically clustered by their history similarities by an unsupervised learning algorithm + Graph



GraphML Recommendations = Accurate & Efficient Decisions

GraphML Recommendations

Workbench Recommendation	Other Systems
REJECT	APPROVE
APPROVE	APPROVE
APPROVE	REJECT
REJECT	APPROVE
APPROVE	APPROVE
APPROVE	APPROVE
REJECT	REJECT
REJECT	REJECT
REJECT	APPROVE
APPROVE	REJECT
APPROVE	APPROVE
REJECT	APPROVE

Dashboard / **Claims Queue**

$22.5M	YTD Recovered Payments	370	YTD Fraudulent Claims Detected	$4.6M	YTD Fraud Losses

32 Flagged Claims

Enter Transaction ID or key terms

Timeframe: 7 days

Recommendation Type: All

Risk Score: 0 – 100

Workbench Recommendation	Other Systems	Dispute	Claim ID	Member #	Amount	Patient Email	Date	Community Connections			Reviewer Decision
REJECT	APPROVE		4340067280	54323007	30000.00	aliashere@email.com	2020-08-17		DETAILS	GRAPH	Select
APPROVE	APPROVE		4340237520	54260032	41000.25	aliashere@email.com	2020-08-17	Yes	DETAILS	GRAPH	Select
APPROVE	REJECT		4340067252	42694010	15870.00	aliashere@email.com	2020-08-17		DETAILS	GRAPH	Select
REJECT	APPROVE		4340541254	42629022	45980.20	aliashere@email.com	2020-08-17	Yes	DETAILS	GRAPH	Select
APPROVE	APPROVE		4342524369	42672912	12500.99	aliashere@email.com	2020-08-17		DETAILS	GRAPH	APPROVE
APPROVE	APPROVE		4346279000	42647290	42670.60	aliashere@email.com	2020-08-17		DETAILS	GRAPH	APPROVE
REJECT	REJECT		4340052356	42629120	52670.90	aliashere@email.com	2020-08-17	Yes	DETAILS	GRAPH	REJECT
REJECT	REJECT		4340052178	42691011	17800.25	aliashere@email.com	2020-08-14		DETAILS	GRAPH	REJECT
REJECT	APPROVE	YES	4340054370	42690209	10250.00	aliashere@email.com	2020-08-14		DETAILS	GRAPH	APPROVE
APPROVE	REJECT		4340469000	42692034	21890.00	aliashere@email.com	2020-08-12		DETAILS	GRAPH	REJECT
APPROVE	APPROVE		4340522682	46591081	21890.00	aliashere@email.com	2020-08-12	Yes	DETAILS	GRAPH	APPROVE
REJECT	APPROVE	YES	4344236589	42690107	35000.00	aliashere@email.com	2020-08-11	Yes	DETAILS	GRAPH	APPROVE

GraphML Rationale = valuable, deep insights

Rationale for Quick Decisions
(Explainable Graph + ML)

Workbench Recommendation

REJECT

Reviewer Decision

PENDING

Recommendation Rationale

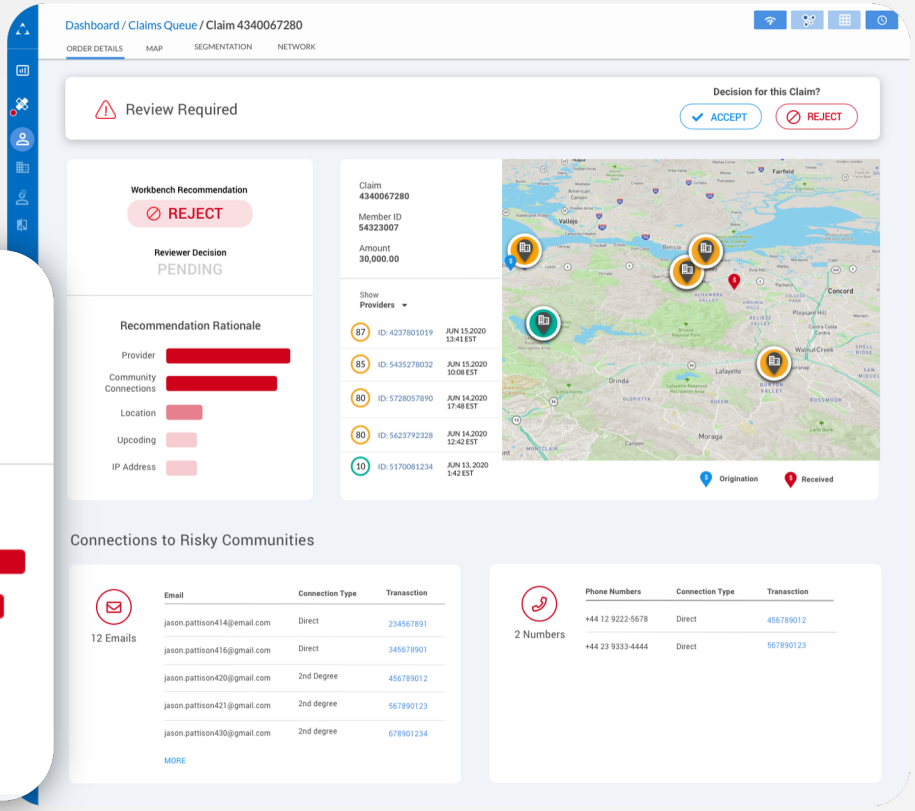
Provider

Community Connections

Location

Upcoding

IP Address

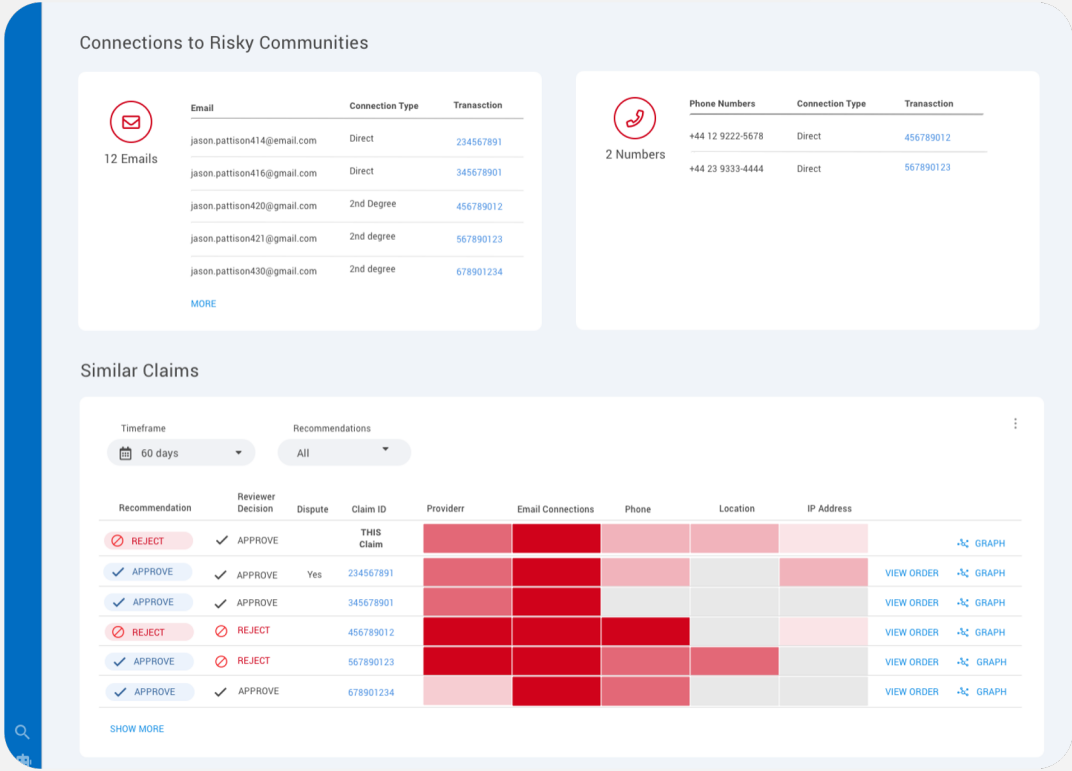


GraphML Visualizations = Efficiency Gains & Accurate Decisions

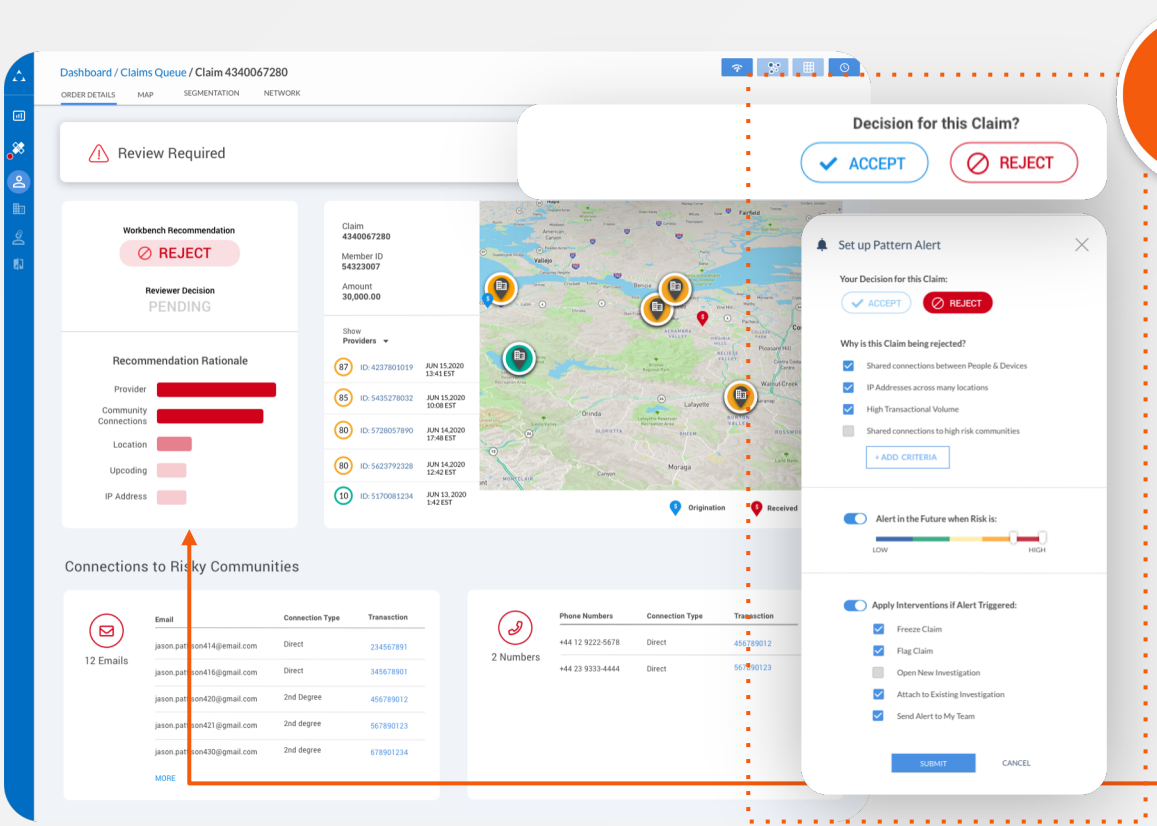
Simple & Powerful

Data Connections driven by Graph Algorithms save users time

- Louvain - Risky Communities & Bad Actors
- Similar Claims



Augmenting Fraud Models with Colearning



Human-in-the-loop
Feedback Informs Model

ML Model

Model Informs the User

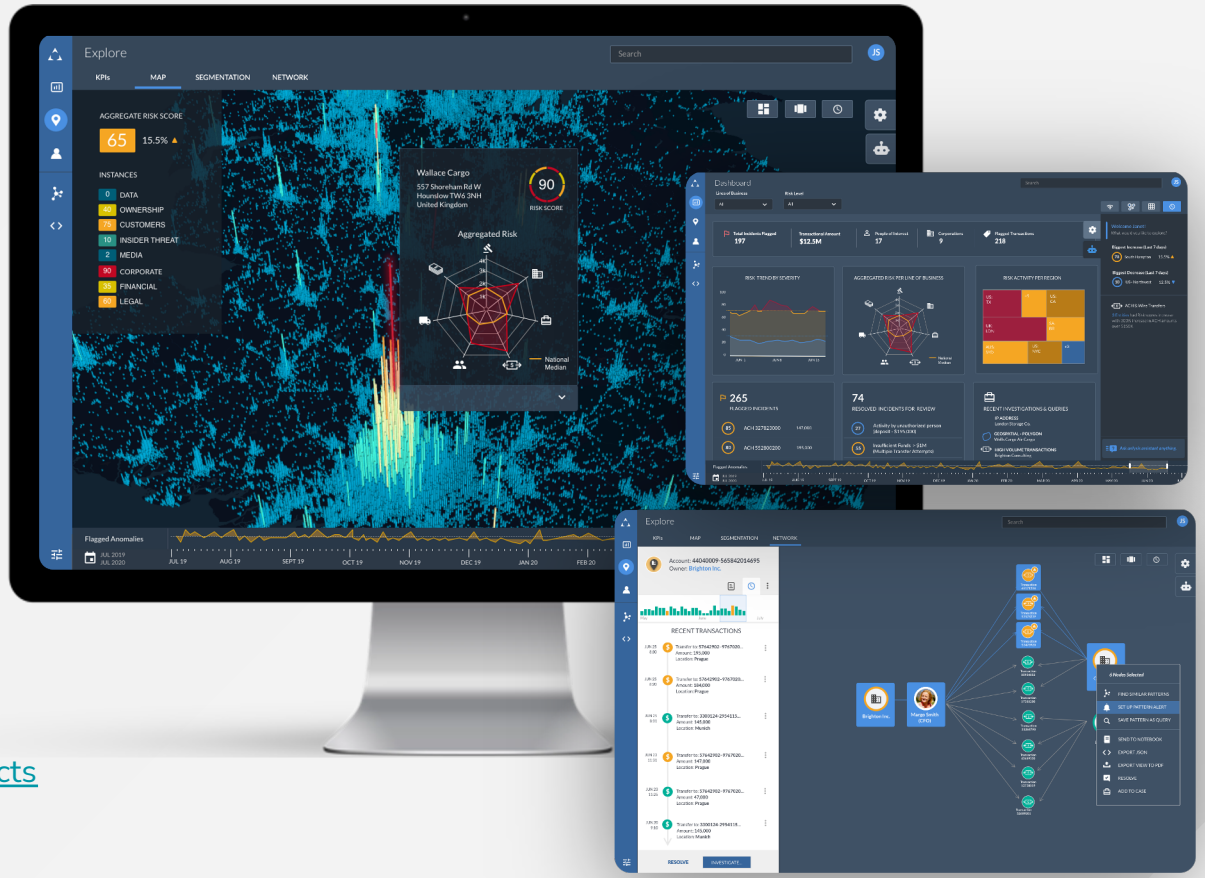
Increasing Visibility Explainable AI

Why is overall risk increasing?

Humans
Data Science
Data & Infrastructure

How Does Tiger Shield Work ?

- Monitoring
- GraphML CI/CD
- Active Learning
- Interpretability



experoinc.com/solutions/data-products

WEBINAR

Topics

2021 (AML) : What does the future hold?

Complexity and State of AML

Key Features and Issues facing AML - Treasury Changes & Impacts

(Michael Shaler - 18 min)

2021 - What will the Role of ML, GRAPH & Humans be?

How - Graph + Machine Learning combine

(Graham Ganssle, Ph.D. - 18 min)

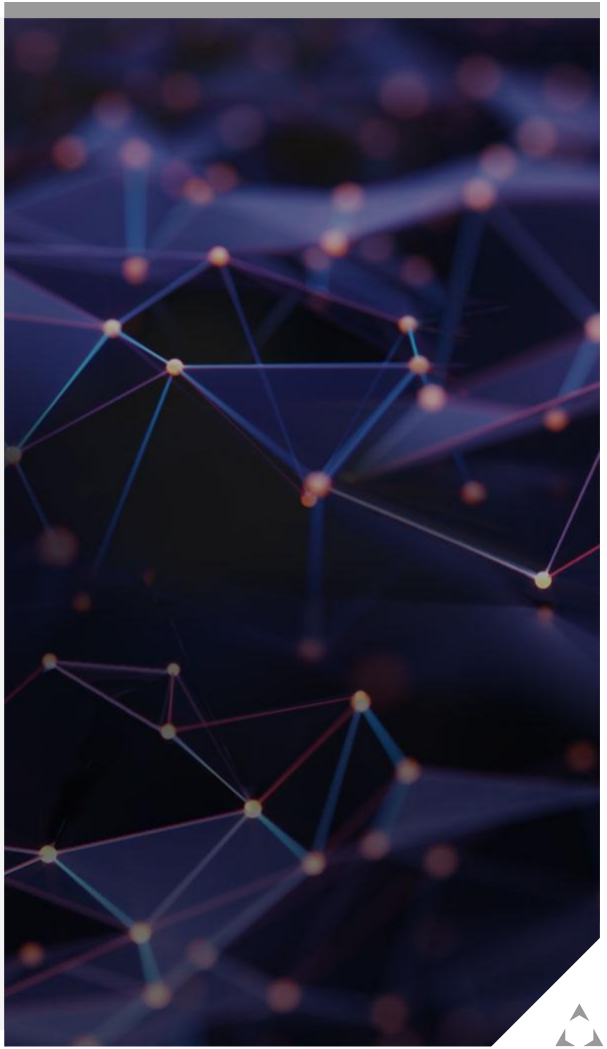
What is in the New TigerShield Solution?

How Does TigerGraph address these issues? Demos of Art of the Possible

(Scott Heath - 18 min)

Q&A

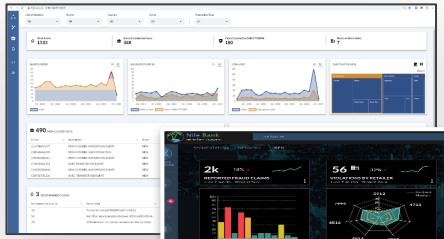
(5 Min)



Visualization - Functionality by User

Tiger Shield Workbench

TG STUDIO



EXECUTIVES

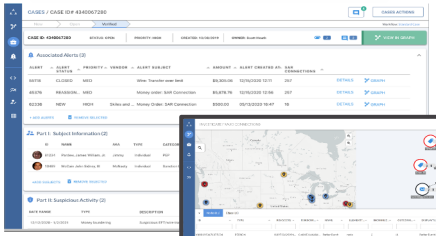
Dashboards & Reports

- Macro Trends
- Drill In Elements

LINE OF BUSINESS

AML Specific Dashboards & Reports

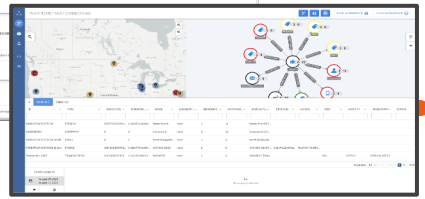
- Que
- Numbers
- Open
- Status
- Audit & Compliance
- Closed



ALERT & CASE MGT

Alert & Case : Que & Detail

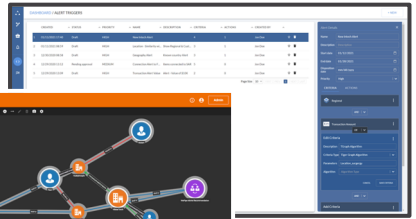
- Alert -> Case
- Auto Grouping
- Case Management
- Audit & Compliance



INVESTIGATIONS

Investigation Teams - Workbench

- Investigations & Teams
- Findings & Connectivity
- Graph Exploration



ALERT / RULES

Alert, Dashboard & Rule Management

- ML & Algorithms
- Complex analytics and ‘scenarios’

ALGOS | PLATFORM

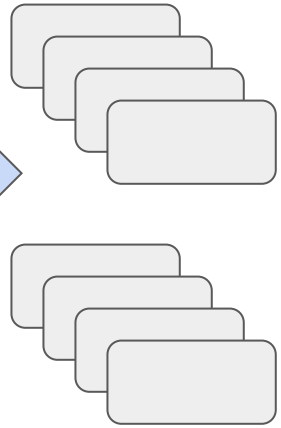
Graph & Management

- Data Models
- Graph Ops & Attributes

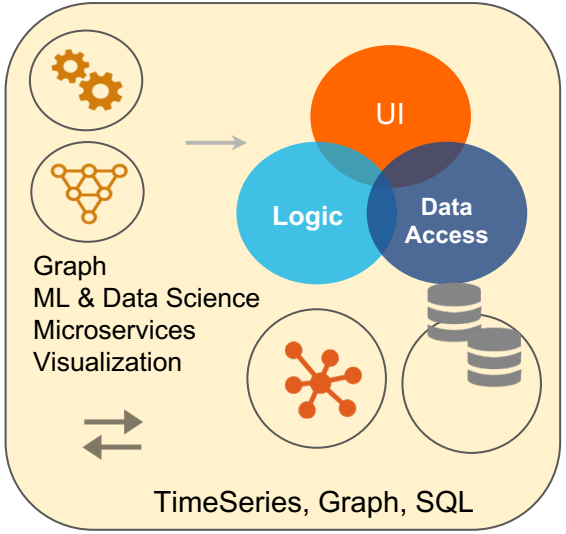
TigerShield : TEAM ENVIRONMENT

Business Units
- Financial Crimes
- AML
- Credit Card/Trx
- Cyber
- Audit & Compliance
- Risk
- Trade Sanctions
- Exec | Management

Separate Teams
- ‘Pods’ By Unit



2 - 3 Person Team’s
- Lead Investigator
- Data
- ML



DATA
- Secure Ingest
- Data Provenance
- Atomic Data Security
- Each Data set - Security

TEAMS
- Team Security - Sandbox
- Scenarios - Test’s ML & Logic
- Team Shared Learning
- Allow Pods to Share
- Management Roll Up
- Atomic, Group and Corp data share

CORP NEEDS
- Promote to SAR
- Share Case management
- Prosecution
- Pro-active alerts
- Predictive intervention
- ML & Explainability

GRAPH+AI SUMMIT organized by TigerGraph

TigerShield Anti-Fraud Solution

Modules

Explorer

- Simple & Advanced Search
- Case, Alert & Ring View
- Link & Layout visualization
- Map & Grid View
- Graph Connection Information
- Hop & Connection Limits
- Save & Alert/Case attach
- Load / Save

Analytics

- Analytics 'Recipe'
- Segmentation
- Pattern Mapping
- Similarity & Cohort View
- Risk Grid
- Sankey View
- Save & Alert/Case attach
- Load / Save
- View Multiple TGraph outcomes

Alerts

- Alert Que & Detail
  - Role based Que
  - Connection View
  - Detailed view of Alerts
  - Linked parties, Graph
  - Workflow Enabled
- Alert Builder - Engine
  - Boolean
  - TGraph - Algo
  - Grouping - Priority

Case Management

- Case Que & Detail
  - Case file
  - Subjects
  - Alert linking
  - Non-obvious connection
  - Workflow & filters Customer Logic
- Build and Save
- Criteria & Actions
- Grouping

Dashboard

- Dashboard Builder
  - Role & Task Based
- Alert & Case Que
- KPI elements
  - Pie, Risk, Grids

Reporting

- Grid, Summary Reports
  - Filters and Report
  - Ad Hoc
  - PDF, XLS, XML export
  - Link GSQL

Workflow

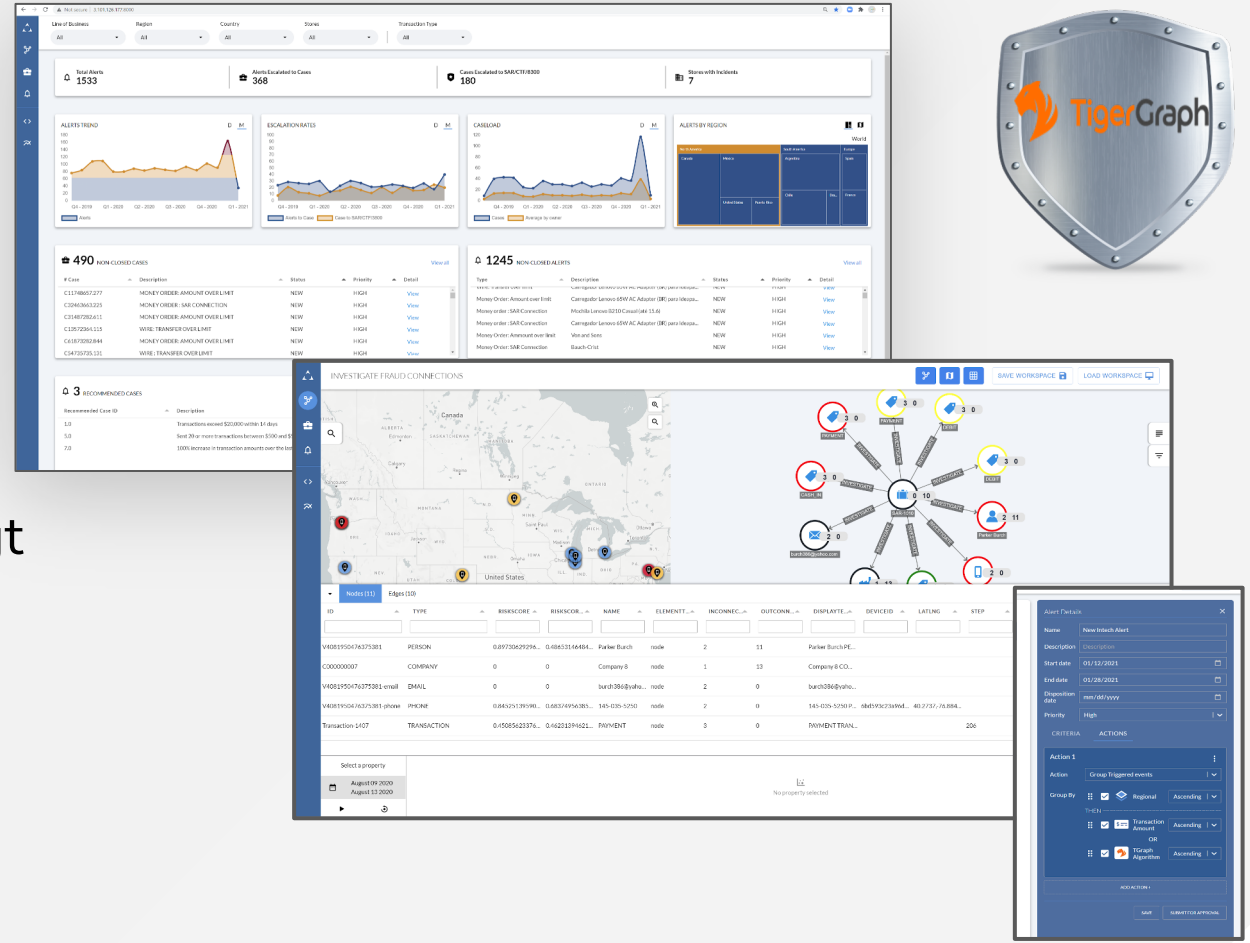
- Setup CRUD
  - Cases
  - Alerts
  - Reports (SARS)
  - Approvals, Status

ER/Data Enrichment

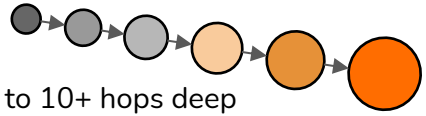
- Setup Link TGraph Algos
  - Alert Links
  - Dashboard Links
  - Workflow and Errors

Demo

- Rules / Alerts
- Dashboards
- Analytics
- Case & Alert Mgt



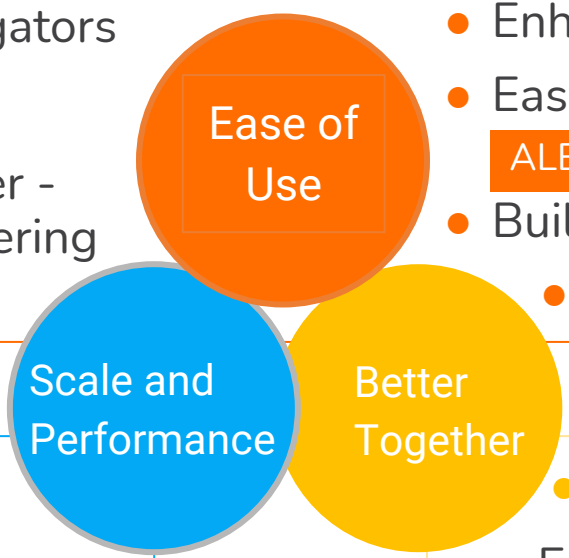
The TigerGraph DB Difference

Feature	Design Difference	Benefit
Deep-Link Pattern Discovery  5 to 10+ hops deep	• Native Graph, for speed and efficiency	• Uncovers hard-to-find patterns • Operational, real-time analytics
Handling Massive Scale 	• Distributed DB architecture • Massively parallel processing • Compressed storage reduces footprint and messaging	• Integrates all your data • Automatic partitioning • Complete data → Better detection
In-Database Analytics 	• GSQL: High-level yet Turing-complete language • User-extensible graph algorithm library, runs in-DB • ACID (OLTP) & Accumulators (OLAP)	• Avoids transferring data • Richer graph context • In-place Machine Learning

TigerGraph - Democratizing Graph Analytics

INVESTIGATIO
N

- Multiple types of Investigators
- No-Code Business UI's
- Investigate better & faster - less time hunting & gathering



INVESTIGATION

- Enhanced Pattern Matching
- Easy Deep Querying

ALERTS

- Build, Maintain and Test
  - Graph, ML & Boolean

DEVELOPERS

- Easy to use UI - GSQL

SYS ADMIN

- T2P Platform
  Faster install & sys mgmt

DEVELOPERS

- pyTigerGraph python API
- Expanded Ecosystem
  https://github.com/tigergraph/ecosys/blob/master/docs/awesome.md
- Developers Portal with Machine Learning Notebooks

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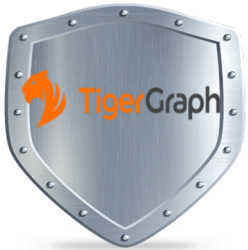
Connecting It All -1 Anti-Fraud Solution

Get more value from your data by making the connections

- **Party Level & Transactions** makes data visible, accessible, extensible
- **Scalability & Performance** gets the truth about who is who, discovers new connections
- **ML & Clustering** for a host of ML & Analytics applications



- **Easy to Use Business UI** Easy to use and understand visualizations
- **Role Based Access** Interfaces for simple to complex investigation teams
- **The right user interface** offers insight and explainability

Tiger Fraud Solution - Success with Graph + ML

- Modular Solution - ‘Bolt On’ for Right Architecture and Pipeline
- Business & IT Interfaces for easy installation & support
- Business functionality + Graph Analytics in 1
- Be Flexible and Plan for Growth
  - Cloud
  - On Premise

TigerShield Solution Focus

- Increase Accuracy
- Decrease False Positives
- Utilize My Current Technology
- Increase Speed & Efficiency
- Adapt to Govt Changes Faster
- Modular Total Solution
- Powered By TigerGraph

Learn More

https://www.tigergraph.com/toolkits/