CGI HotScan360

An enterprise risk management platform delivering **fraud detection, transaction screening** and **customer due diligence** capabilities.

Market forces are driving significant change in the compliance and risk market

Technology Development
Flexible Integration | Machine Learning
High Availability | High Scalability

Customer Expectations
Real-Time Transactions | Smooth Payments
Omni-Channel Security

Legal and Regulatory Pressure
GDPR | AML | Instant Payments
Open API | KYC/CDD

Investment and Maintenance Efficiency
False Positive Alerts | Operational Excellence
Availability of expert resources | FTE Reduction

CGI HotScan360's Key Features & Benefits

All-in-One Risk Management Platform

- Comprehensive anti-financial crime platform covering AML and fraud monitoring, CDD, transaction filtering and enterprise case management
- All modules provided through a single solution, single implementation and single license
- Designed to comply with the latest and upcoming regulations to ensure legal compliance and protect the bank's reputation

- High-performance, real-time risk engine that scans and scores thousands of transactions per second
- Includes in-memory databases with response times in milliseconds for full support of instant and online payments
- Developed in close cooperation with major banks, with fine-tuned rule sets and treatments for fraud and customer identification

Coverage of All Data & Channels

- White-box solution, with full control of decisioning monitoring and processes
- Full data vertical coverage (L1 to L5 Gartner levels)—from device identification to multi-channel big data analysis
- Capability to integrate non-standard internal and external data sources and normalize the data

- Allows plug-in of third-party solutions for advanced device intelligence, case management or other capabilities per client request
- Covers all standard digital banking channels, as well as internal and external data sources, through out-of-the-box interfaces

Investment & Maintenance Efficiency

- Self-learning rules and system improvement through ongoing suggestions for scenarios that increase AML and fraud detection and lower false positive rates over time
- Cost savings through more reliable risk detection using big data predictive and advanced analytics, along with machine learning models
- Cost savings through reduced customer authentication costs, process automation and operational FTE reduction

- Detailed overview of a bank's risk situation through strong reporting, analytical and visualization capabilities
- Full deployment possible in six months or less
- Effective and integrated incident case management
- Active-active and rolling updates support for high availability and scalability, even during patching and disaster recovery situations
- Sandbox allows production data to be used for testing, delivers analytics to help optimize the effectiveness and efficiency of the system and provides an audit of the testing process.

What is CGI HotScan360?

CGI HotScan360 is a versatile and complex financial crime and risk management platform. It provides real-time monitoring and big data analysis for customer activities and identifies potential fraud.
When anti-money laundering, customer due diligence and fraud detection systems operate using the same data sets, why use multiple solutions?

CGI HotScan360 CORE FEATURES

FDS
Fraud Detection System

Protection of customer funds and data

CDD
Customer Due Diligence

Protection of banks from risky customers

AML
Transaction Filtering and Monitoring

Protection of society from money laundering

Real-Time Digital Client & Transaction Behavior

Real-time data scanning is a must for successful fraud prevention

People today are sensitive about their security. Repetitive fraud will eventually lead to the loss of customers and revenue decline. Further, institutions are required to implement anti-fraud measures by law. If they fail to provide clear evidence that measures have been implemented based on the latest compliance requirements, they will face formal investigation, with the possibility of heavy fines.

Smart solution for any financial institution

We provide an out-of-the-box solution that can be integrated within any bank environment and can begin AML detection in a surprisingly short time while providing outstanding quality. The CGI HotScan360 CDD module manages customer data and activities using modern delta screening algorithms and intelligent re-scoring algorithms. This smart solution significantly reduces total cost of ownership.

Online processing of customer transactions

CGI HotScan360 is able to process all customer transactions online and suspend suspicious transactions while submitting them for investigation. Sources and destinations are further analyzed. In addition, behavioral profiles are calculated and then used to detect divergences potentially leading to money laundering activities.

Adaptive Authentication Use Case

A customer would like to make a standard online payment. Based on CGI HotScan360's fraud prevention approach and behavioral analyses (for example, of the customer's chosen payment type, typing speed and geographic location), customer authentication is not needed. In addition to benefiting the customer in terms of convenience, the bank's costs for SMS authentication or calling also are significantly decreased.
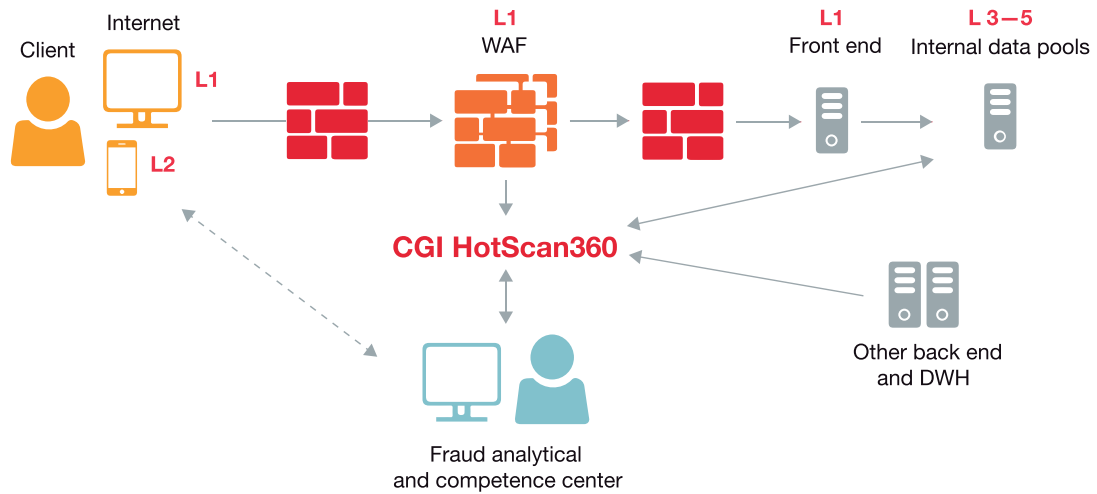
Proactive Fraud Detection Use Case

A customer is about to log into her Internet banking account—unaware of malware on her device. CGI HotScan360 identifies the threat and, to protect the customer's finances, denies her access to her account. At the same time, it informs the bank, which contacts the customer and decides on next steps.

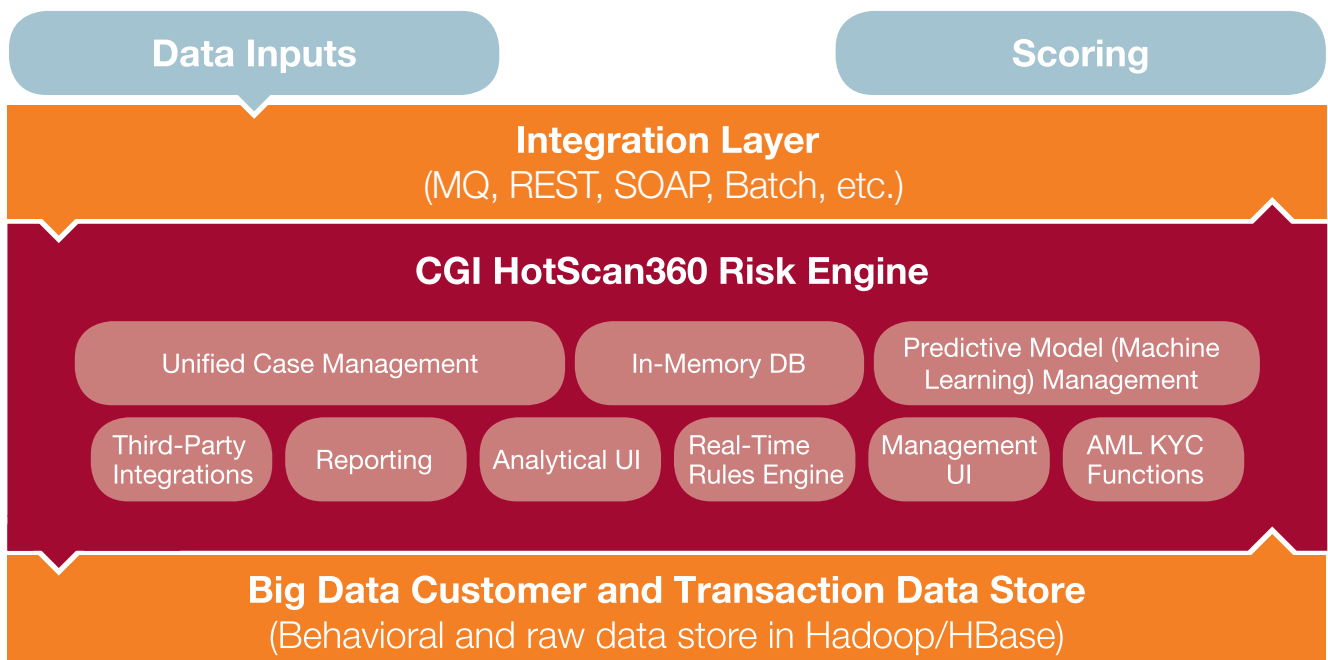# Innovative technology to meet customer expectations

CGI HotScan360 is an open, scalable and fully modular platform that is built using the most advanced frameworks. Most of its components can be fully integrated with other systems or omitted. All implemented workflows and processes can be customized based on a client's specific business needs.

CGI HotScan360 Integration Architecture

L1	**L2**	**L3**	**L4**	**L5**
Protection and monitoring endpoint device, authentication, device identification, geo-location, etc.	Monitoring of user's navigation behavior and comparison to common user patterns	Single channel anomaly identification using defined rules and statistics	Data combined from multiple channels; combined monitoring for users, accounts, entities, etc.	Analysis of relationships among internal and external entities and their attributes (e.g., users, accounts, products, etc.)

CGI HotScan360 High-level Architecture

Data Inputs

Scoring

Integration Layer
(MQ, REST, SOAP, Batch, etc.)

CGI HotScan360 Risk Engine

Unified Case Management

In-Memory DB

Predictive Model (Machine Learning) Management

Third-Party Integrations

Reporting

Analytical UI

Real-Time Rules Engine

Management UI

AML KYC Functions

Big Data Customer and Transaction Data Store
(Behavioral and raw data store in Hadoop/HBase)

Key findings from our 2018 CGI Client Global Insights report on retail banking

Our financial services business is made up of ~16,000 people working across 5 continents.

CGI is a trusted advisor to **15 of top 20 banks globally,** including the top **10 European banks** and **9 of the top 10 U.S.** banks.

With more than 40 years of experience, we help clients overcome the increasing challenges of competition, consolidation and compliance, enabling them to transform and grow their businesses.

22%
18%
12%
7%
24%
16%
1%
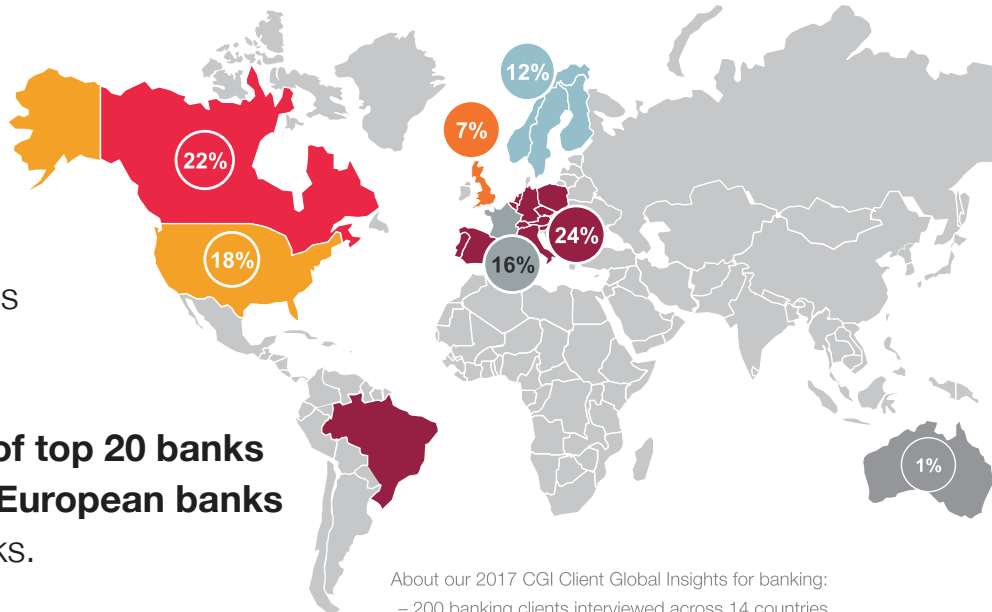
About our 2017 CGI Client Global Insights for banking:
– 200 banking clients interviewed across 14 countries
– Three sub-sectors covered: retail banking, corporate and transaction banking, and capital markets
– 43% of interviewees were business leaders; 57% were IT leaders
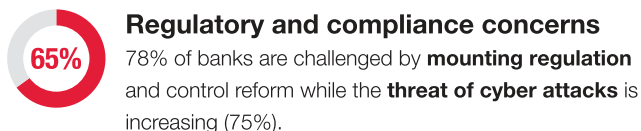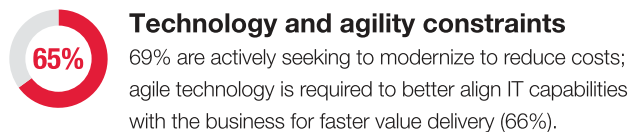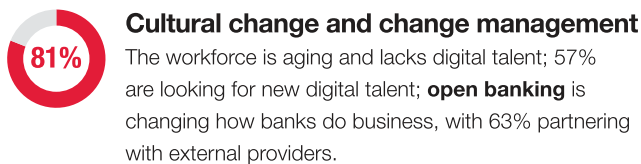– Findings below are based on our retail banking interviews

Regulatory demands and the growing threat of cyber and other financial crimes are key reasons for implementing modern technology.

2017 Budget Drivers

85%
Digital transformation

82%
Regulatory compliance costs

69%
New products or services

67%
Cybersecurity

63%
Data analytic capabilities

Transformation Challenges

Major challenges to retail banking transformation start with cultural change and risk management.

81% **Cultural change and change management**
The workforce is aging and lacks digital talent; 57% are looking for new digital talent; **open banking** is changing how banks do business, with 63% partnering with external providers.

65% **Technology and agility constraints**
69% are actively seeking to modernize to reduce costs; agile technology is required to better align IT capabilities with the business for faster value delivery (66%).

65% **Regulatory and compliance concerns**
78% of banks are challenged by **mounting regulation** and control reform while the **threat of cyber attacks** is increasing (75%).

47% **Cybersecurity concerns**
As the market becomes increasingly digital (64% see customers **adopting digital as their preferred channel**), the risk of cyber threats is rising, with 69% actively seeking to protect the bank from financial crime and regulatory risk.

Founded in 1976, CGI is one of the largest IT and business consulting services providers in the world. Operating in hundreds of locations across the globe, CGI helps clients become customer-centric digital organizations.

We deliver high-quality business and IT consulting, systems integration and transformational outsourcing services, complemented by more than 150 IP-based solutions, to support clients in transforming into digital enterprises end to end. CGI works with clients around the world through a unique client proximity and best-fit global delivery model to accelerate their digital transformation, ensure on-time, within budget delivery, and drive competitive advantage in today's increasingly digital world.

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