# Tookitaki AMLS
# Transaction Monitoring Solution

An award-winning, self-adaptive machine learning solution that detects false negatives and reduces false positives. It reduces the risk of non-compliance and improves efficiency together.

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*Trusted by global banks, it complements legacy systems to enhance operational efficiency in the alerts management process and detect emerging threats faster and accurately.*

## Looking beyond the obvious

Today's Transaction Monitoring (TM) solutions present a wide gap in the alerts management process and fail to provide comprehensive AML risk coverage for financial institutions. As money laundering techniques are evolving faster, banks have to cast a wider net to catch perpetrators, potentially triggering large volumes of alerts a month. To reduce alerts,, many banks have tightened the parameters or added custom scoring models. Still, the percentage of false positives is high. At the same time, the 'fear of the unknown' prevails as legacy systems and custom data science efforts are unable to auto-adapt to changing customer behavior and detect criminal activity.

## Business Challenges

Manual investigation process leading to poor efficiency & huge alerts backlog
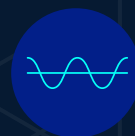
Inability to detect emerging threats

Late or no filing of Suspicious Activity Report (SAR)

High risk of non-compliance despite the increased cost

## Product Challenges

Frequent changes to rules and thresholds

Custom data science efforts to reduce false positives

Custom models degrade faster with data shift over time

Significant time, effort and cost to upgrade, scale and maintain custom models

# About AMLS Transaction Monitoring

Tookitaki TM solution is a robust money laundering detection and alerts management module within our Anti-Money Laundering Suite (AMLS).

It leverages advanced machine learning techniques like AutoML, federated learning and network science to accurately detect complex money laundering activities and triage legacy system alerts into high, medium and low-risk buckets with a clear, auditable explanation, ensuring higher AML risk coverage and faster alerts disposition.

## AMLS Transaction Monitoring Solution

| New Case Detection | Alerts Management |
|---|---|

**Typology Repository Management**

**Network Relationship Framework**

| Intelligent Risk Indicator Engine | Champion Challenger Framework | Explainabie AI (XAI) Framework |
|---|---|---|

## Quantifying business value

**40-50%** reduction in false alerts with **85-90%** SARs in high risk bucket

**3-5%** uplift in overall false negatives or missed true cases

**70%** faster time to market as against other AI solutions

## Trusted by banks and validated by a Big Four risk advisory

A leading Asia-Pacific bank has deployed our Transaction Monitoring system in production and Deloitte validated the model results independently. Our solution has proven to reduce false alerts by 50% and scored 85% SARs in high-priority bucket. Besides, the solution has seen similar performance across banks in Europe and the United States
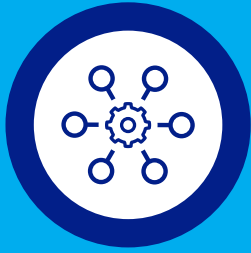
Results validated by **Deloitte.**

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# What sets us apart

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### Seamless integration & faster time-to-market
Our TM solution is compatible with most available primary systems and comes with prepackaged connectors and end-to-end integration capabilities with these systems. It comes with pre- built pipelines that contain 5k+ risk indicators spanning across entities, transactions, counterparties and network relations to detect complex criminal activities and reduce false positives.
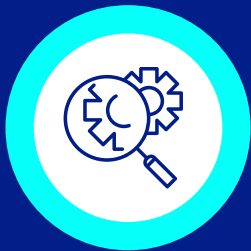
### Reduced noise & improved investigation efficiency
It uses advanced machine learning techniques to effectively draw a boundary between SARs and Non-SARs resulting in accurate predictions. Our intelligent Risk Indicator engine leverages AutoML to generate thousands of relevant risk indicators, which are fed into network models and semi-supervised models to detect specific illicit fund transfers buried deep inside the mountain of legit transactions.

### Low model maintenance & auto adapting to underlying data changes
AMLS-TM comes with an inbuilt champion-challenger framework, which can self learn in event of change in thresholds, the introduction of new rules, and such other data shifts, providing consistent model performance, scale and cost efficiency over time.

### Justification for all alerts, helping in audits & periodic reviews
Our patent-pending Explainable AI (XAI) framework provides clear explanations pertaining to overall model decision-making,rationale behind each alert prediction and contextual explanation for each alert prediction to automate complex human decision-making. The justifications come handy in internal audit and periodic reviews with regulators.
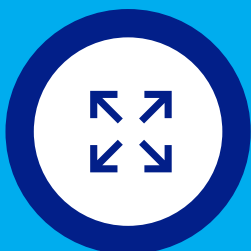
### Enhanced risk coverage through typology repository management
AMLS-TM comes with a growing library of real-life money laundering patterns shared by AML experts, regulators and financial institutions. Titled as Typology Repository Management, it helps financial institutions to automatically ingest patterns suitable for them to detect such cases on their dataset, accelerating their risk coverage