Product Benefits

Award winning Predictive Analytics

DetectX®

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Benefits, Features and Core of the Award winning DetectX® Plattform

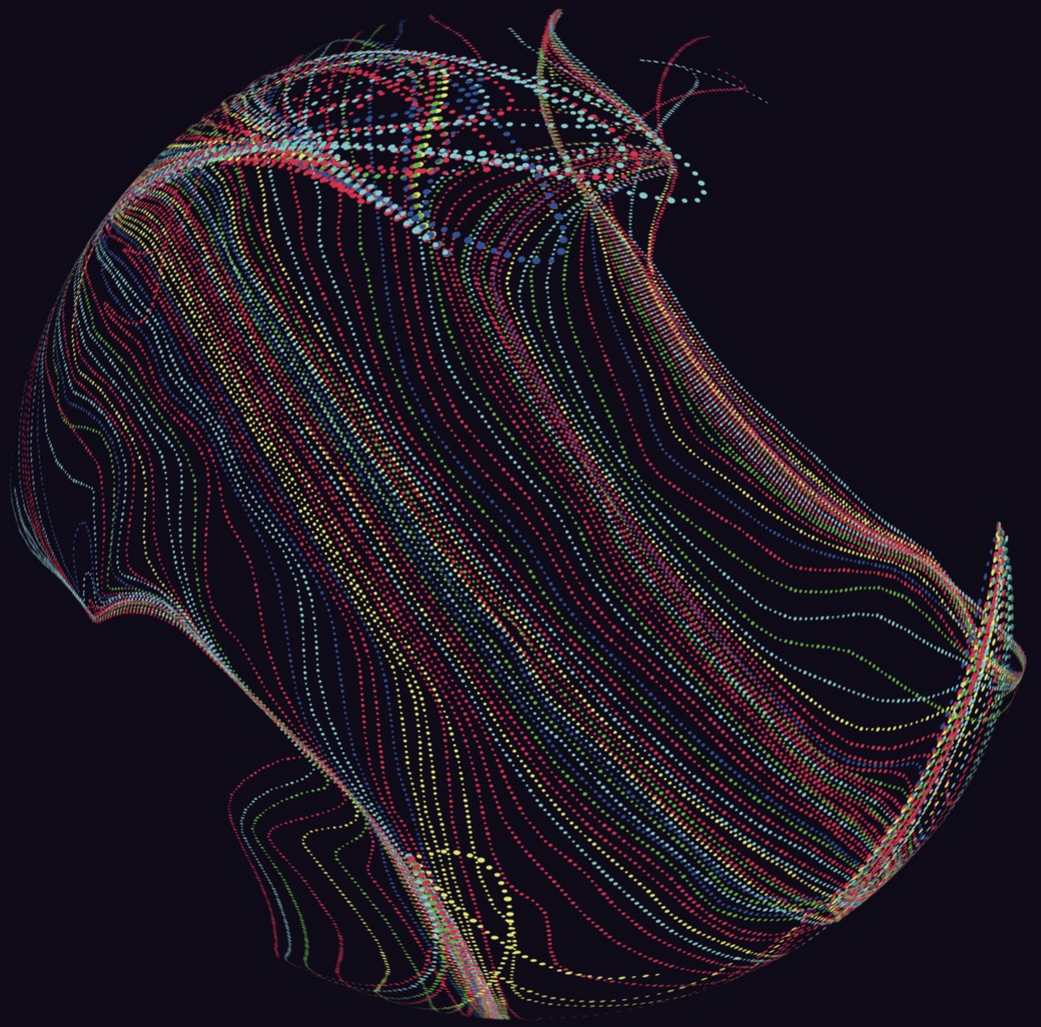
DetectX®

The DetectX® platform was created as a generic predictive analytics capability.

It allows businesses to create analysis and detection models in any horizontal or vertical field and to predict outcomes based on historical and existing data.

As this is an extremely complex task to solve, it is easy to understand that the building blocks of such a platform are also quite complex.

The DetectX® platform exposes these tasks through carefully designed user interfaces allowing users to interact with alerts and workflows.



The core of the product is the analysis engine and the components where the models are built to run in an optimised way.

To analyse the large range of data sources, DetectX® has integration capabilities allowing it to connect to private and public sources of structured and unstructured data.

We engage with many customers who have a broad range of demands and requirements.

They all benefit from a few critical characteristics of a high performance predictive analytics platform:

- → Reliable & accurate detection and predictions
- → Scalable and fit for enterprise architecture
- → Secure integration to legacy and modern systems
- → Adaptable and flexible to customise
- → Aligned with common business applications and processes

Driven by the characteristics of the ideal Predictive Analytics platform, we developed the following seven capabilities which are key to making DetectX® a world-class and leading-edge solution.

Unparalleled model reliability and accuracy

Ability to easily integrate to modern and legacy systems

Analytical framework powered by an Automated Model

Pre-configured Business Solution Accelerators

Scalable, high volume, intelligent processing of data

Prescriptive Process Automation

User Inreface alignment with existing Business Process Applications

These 7 DetectX® capabilities contribute to a high accuracy of predicted outcomes, a reduction of false alerts and the ability to scale and process complex data. Selling through partners represents 75% of the world’s commerce.

To analyse the large range of data sources, DetectX® has integration capabilities allowing it to connect to private and public sources of structured and unstructured data.

1

Reliability and accuracy

DetectX®

Unparalleled model reliability and accuracy.

Probably the most important measure of success after a Predictive Analytics platform is implemented is how accurate the predictions are. Is there a significant reduction in false alerts? Were all true positives detected and nothing missed?

When the predictions are unparalleled, the solution will be deemed highly reliable and the need for high human intervention is reduced.

Many solutions are using simplistic algorithms or they incorporate too many rules, resulting in either being too lenient and missing true instances or being too aggressive leading to too many false positives.

DetectX® has implemented the following to develop an award winning reliable analytical framework

2022

Best Financial Transaction Security Company Award

FinTech Breakthrough Awards Program

2020

Best Predictive Analytics Platform Award

FinTech Breakthrough Awards Program

2016

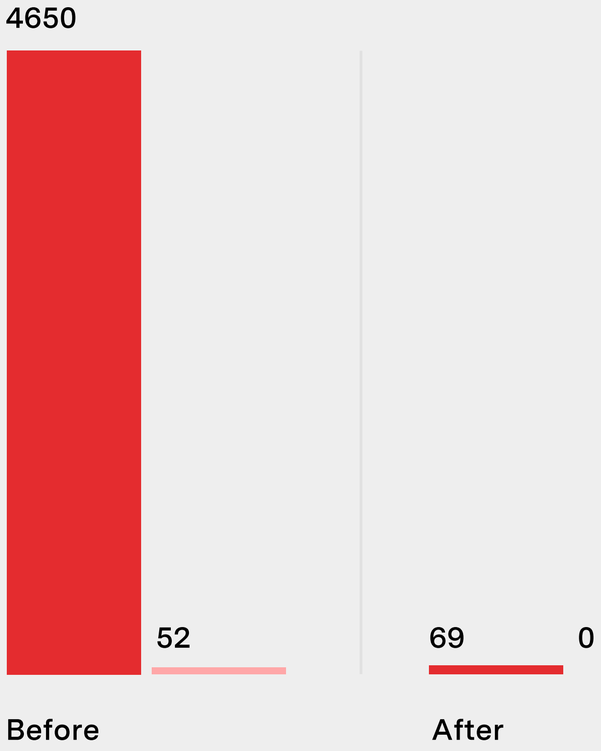
Banking IT-Innovation Award

Universities of St. Gallen and Leipzig

- → Pattern based recognition on text and other forms of data.
- → Continuous benchmark testing for ongoing improvement.
- → AI driven, pattern based learning principles.
- → Multitude of advanced algorithms to optimised accuracy selected by AI engine.
- → Real time feedback learning from all outcomes.
- → KYC name checking, transaction monitoring, dynamic profiling, behavioural modelling, adverse media search.

Benchmark testing for prediction with a Retail Bank in Switzerland resulted in quantitative proof of our superiority.

- False Alerts reduced from 4650 to 69, a 98% reduction of false alerts
- Undetected true positives reduced from 52 to 0, resulting in 100% success in detection of true positives



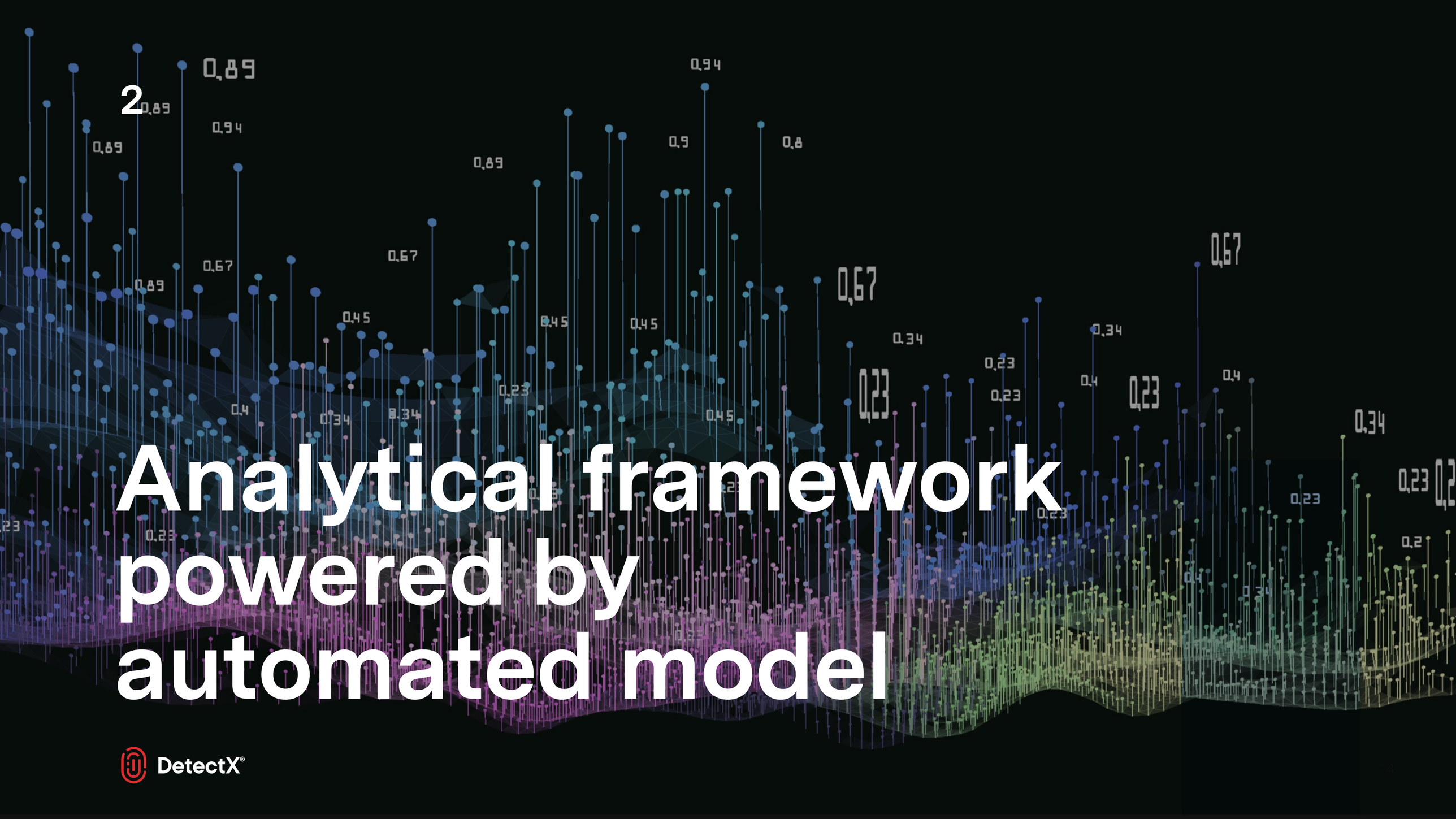
Results from Swiss Retail Bank

98%

Reduction of false alerts

100%

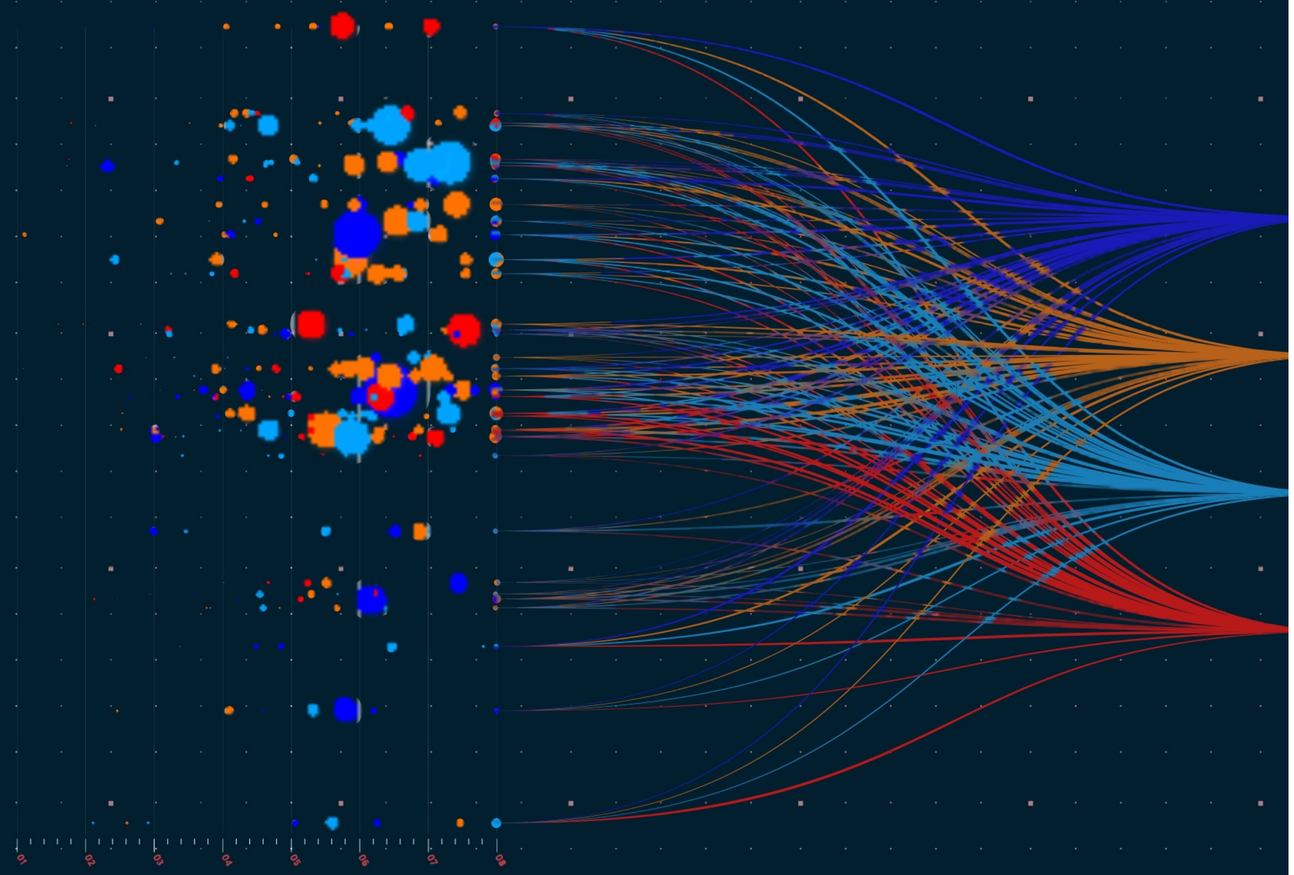
Success in detection of true positives



Analytical framework powered by automated model

DetectX®

2. Powered by automated model



Analytical framework powered by an automated model.

Many current predictive analytic solutions still only use rules based systems or algorithms, requiring manual selection of which algorithms are best , or modifying rules on a continuous basis to keep the model calibrated.

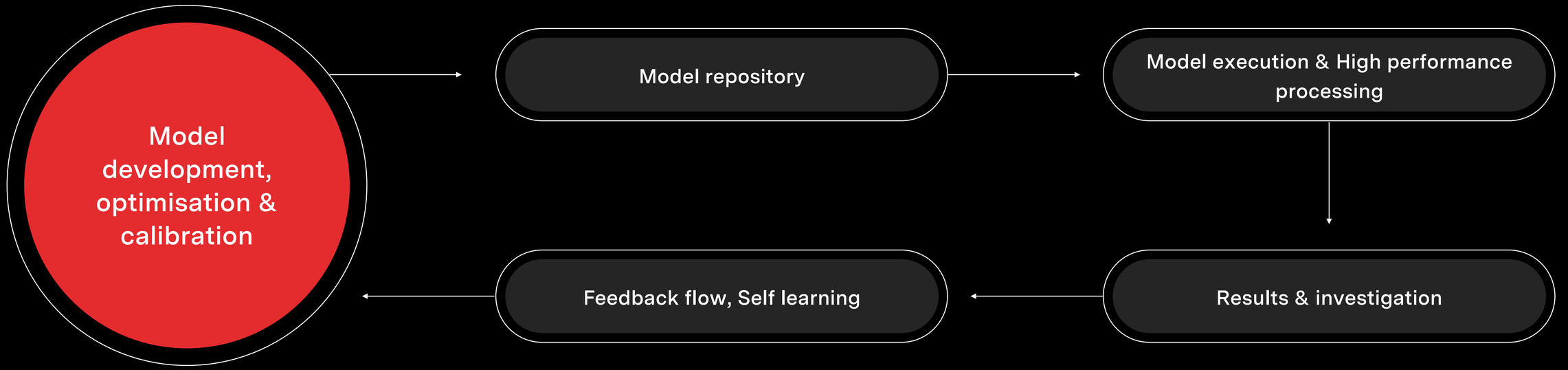
DetectX® determined that automating the selection of algorithms, as well as the automation of the model maintenance and improvements, is critical to keep the model optimally up to date. This also takes the guess work out of which algorithms and rules to apply.

The features needed to allow a fully automated model to drive the performance of the analytic framework includes

- → Automated Feedback mechanisms after alerts have been assessed.
- → Model once, analyse unlimited approach.
- → Evolutionary aspect of learning, in an unassisted way.
- → Ongoing automated calibration of the model based on pattern cognition and other techniques.
- → Minimal manual maintenance.

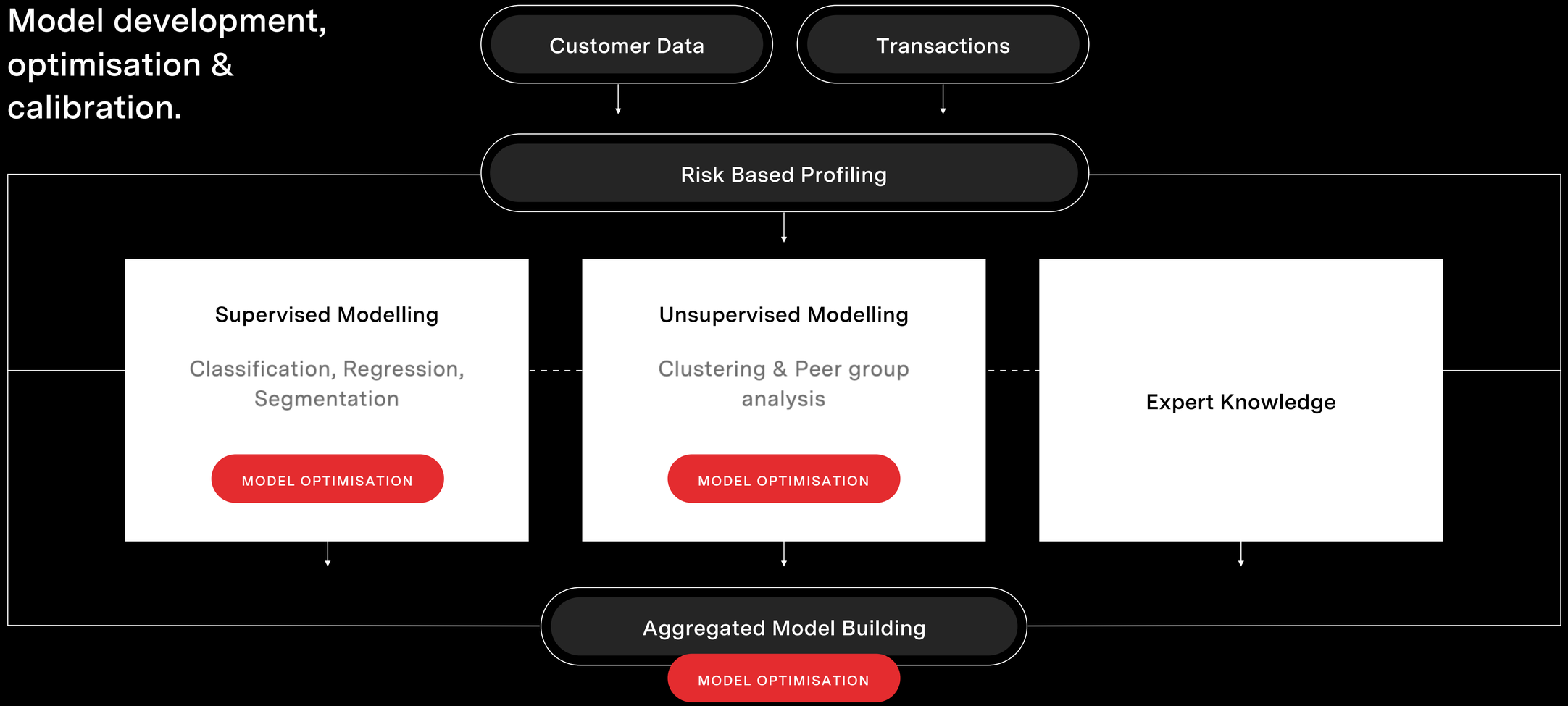
2. Powered by automated model

DetectX® analytical processing and main components.



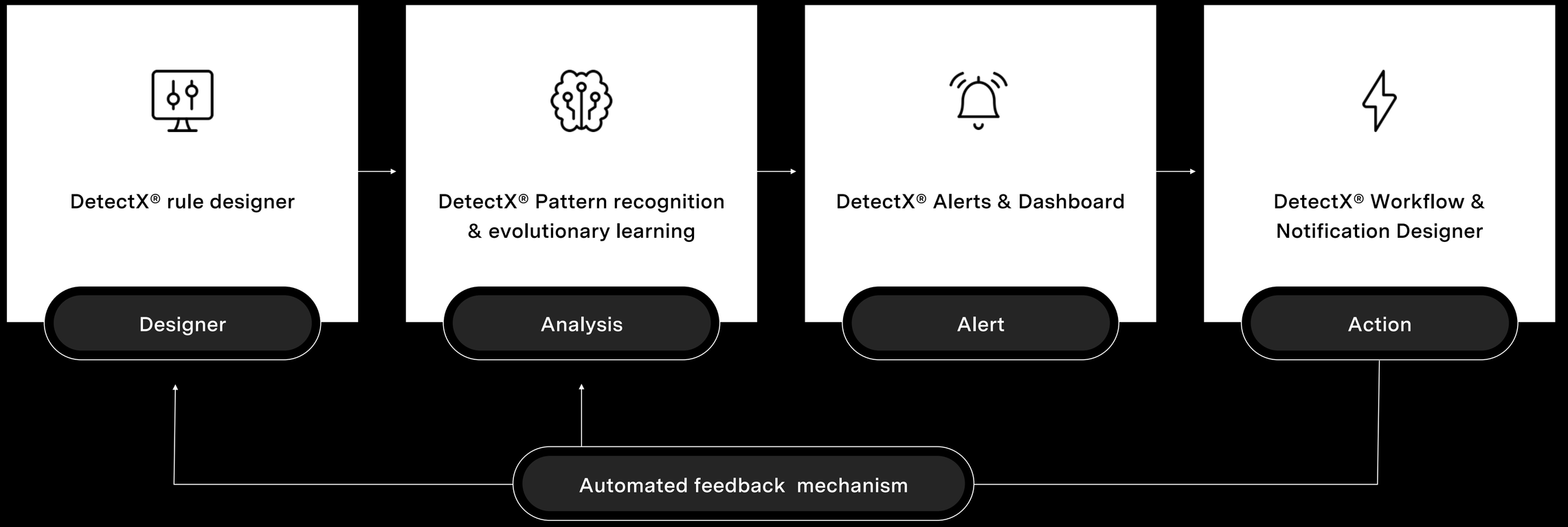
2. Powered by automated model

Model development, optimisation & calibration.



2. Powered by automated model

DetectX® platform & processes.



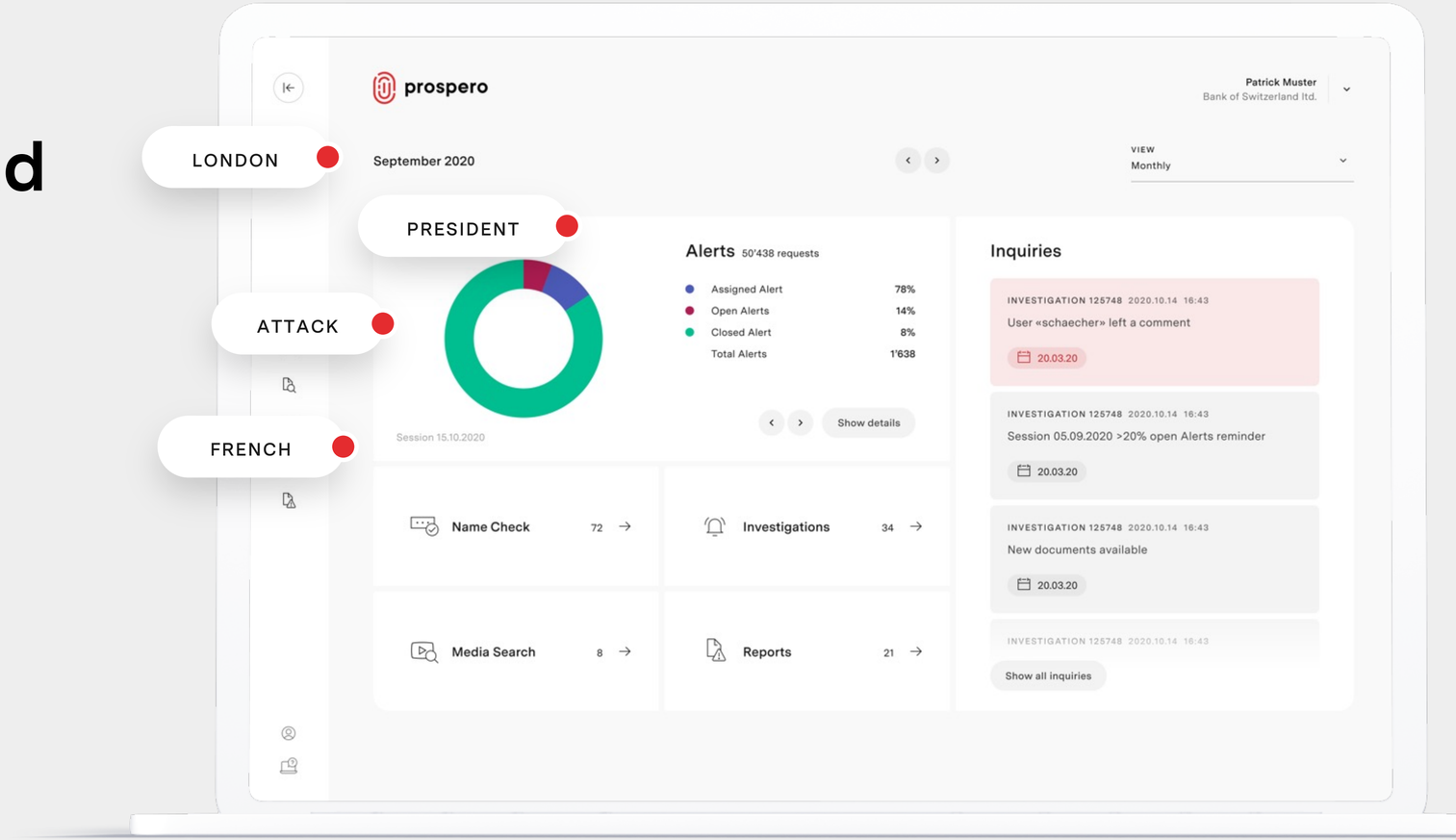
Scalable, high volume, intelligent processing of data

Scalable, high volume, intelligent processing of data.

With data growing exponentially, and the need to incorporate and consider as much data as possible to get the best accurate predictions it seems an uphill task to connect, retrieve and analyse the large amounts of data in an efficient way to deal with time sensitive pressures that come with critical incident alerts. It is therefore essential that DetectX® has the following capabilities to process and analyse high volumes of data in an efficient way:

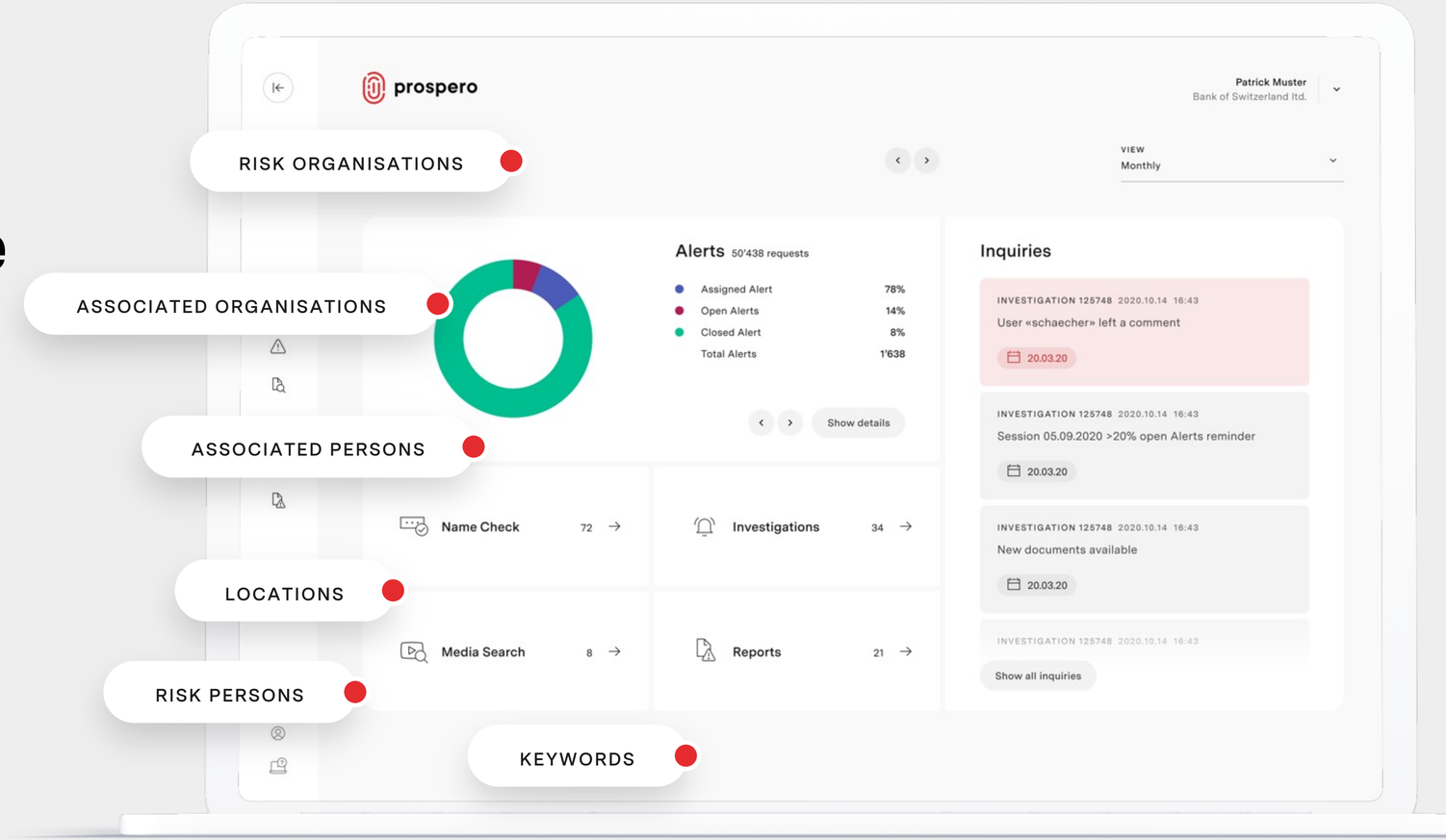
- → Real time high performance processing of large data volumes with in memory technology.
- → Internal and external data source connectivity Structured and unstructured data processing.
- → Natural Language Processing, including analysing for sentiment.
- → AI optimised algorithms for search and analysis depending on the type and nature of the data.

Natural Language Processing & internal and external data source connectivity



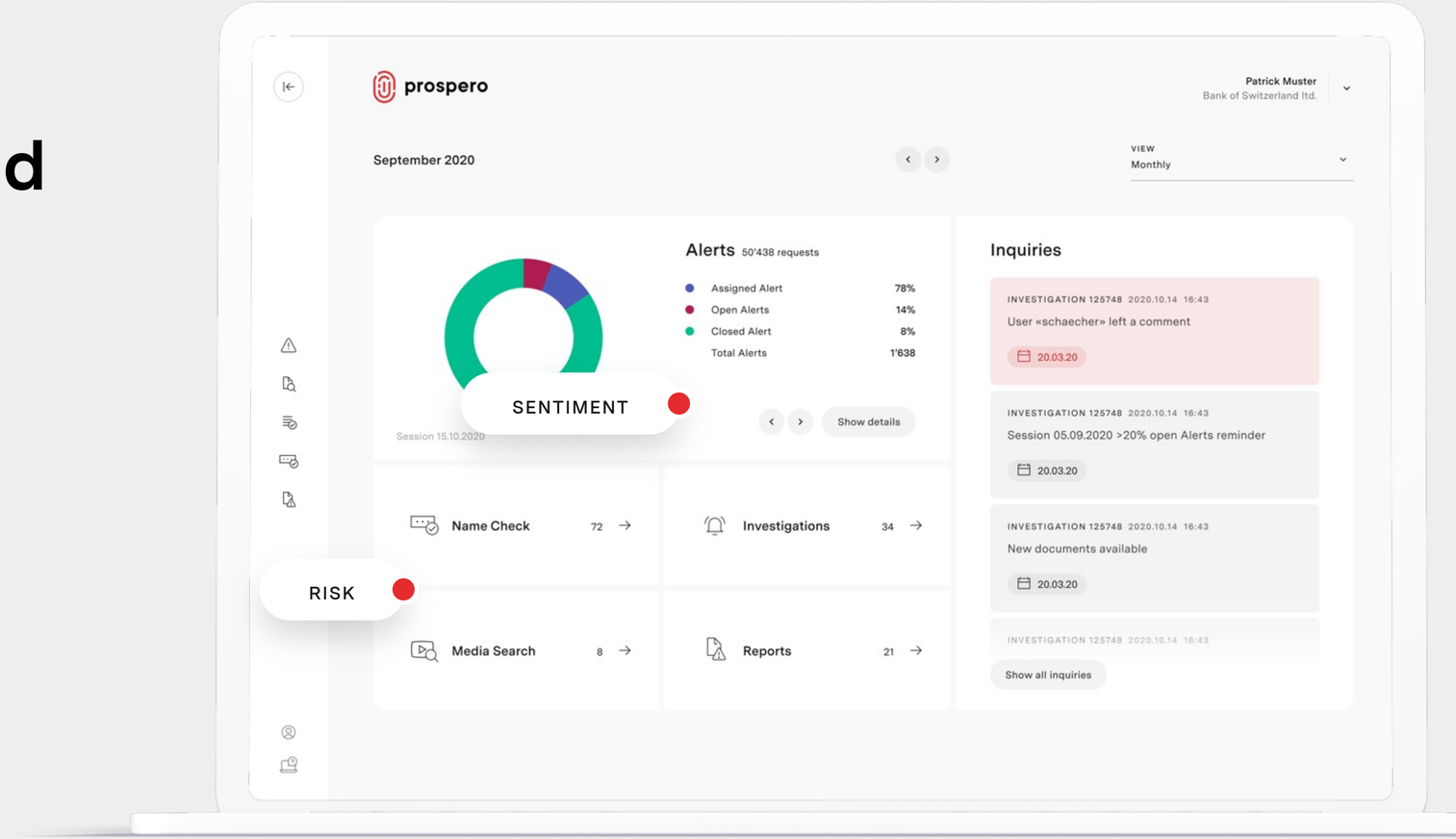
Natural Language Processing & 3 internal and external data source connectivity.

Example Dashboard



Natural Language Processing & internal and external data source connectivity.

Example Dashboard



4

Ability to easily integrate to modern and legacy systems

DetectX®

Ability to easily integrate to modern and legacy systems.

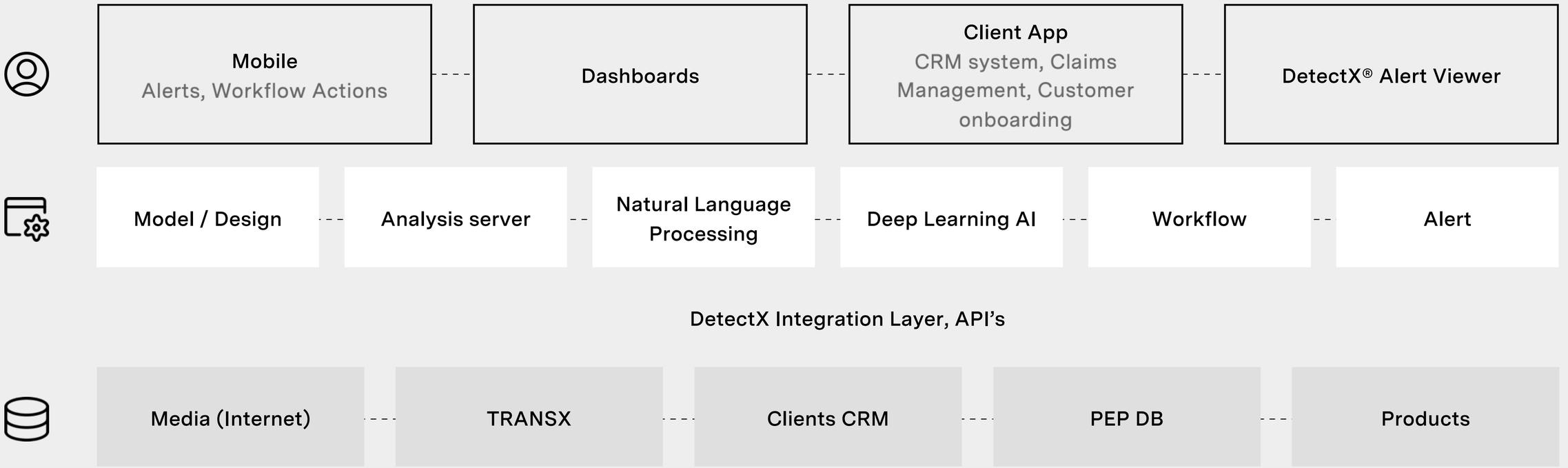
Most customers have a broad range of old and new systems that contain their critical data, and that data can only be accessed in specific ways, within sophisticated security protocols and authentication frameworks.

The volume of data behind these integration players is vast, and with the need to analyse some data efficiently, the efficient and secure integration to the back-end systems is of extreme importance.

The integration capabilities of DetectX® have evolved rapidly over the last few years driven by new technology standards and our experience with some very large banks, investment banks and insurance companies and we can list the following as key capabilities in this area:

- → Rich, complete API sets connect and retrieve integration from legacy systems.
- → Modern integration interfaces to connect easily with latest systems.
- → Ability to push alert, notification and workflow data from DetectX® to commonly used systems.
- → Secure integration framework to protect sensitive data.
- → Ability to use multiple authentication mechanisms to support customers' security requirements.

Solution Architecture with functional systems.



Pre-configured Business Solution Accelerators

Pre-configured Business Solution Accelerators

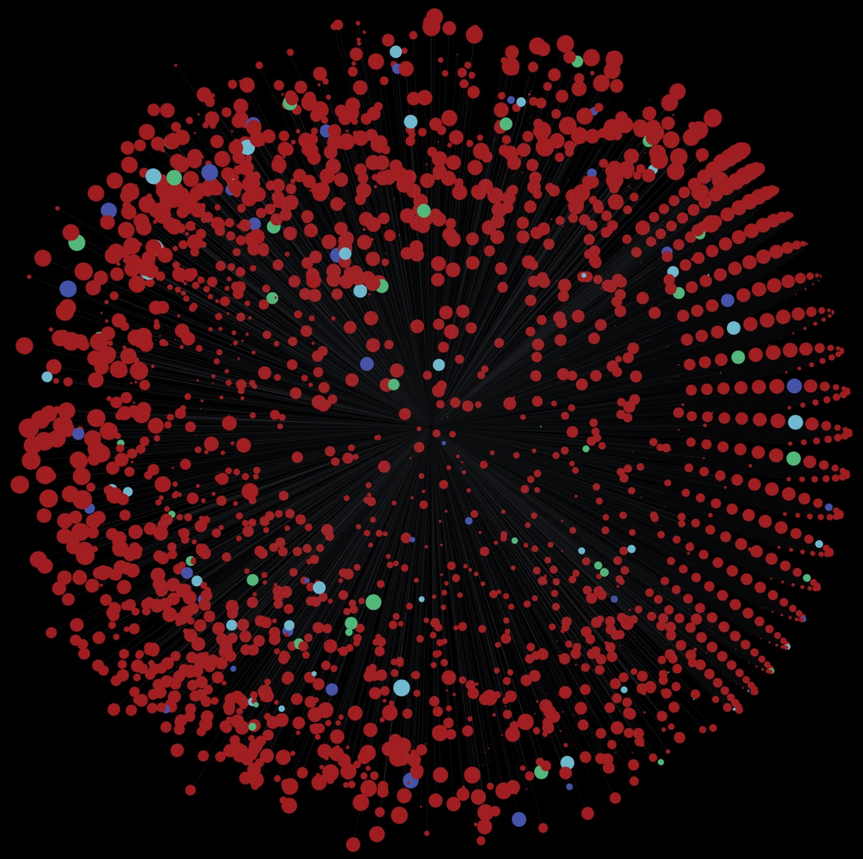
Organisations value ready-made solutions that shorten the time to market of information systems, accessing key capabilities quicker with solutions built fit for purpose, instead of long development projects that introduces a lot of risk.

Having been influenced by many years of experience and the vast amount of financial services customers DetectX® products reflect models, processes and data that require minimal configuration.

DetectX® products are prebuilt solutions with the following characteristics: Reliable & accurate detection and predictions

- → Standalone complete solutions with preconfigured models, workflows, customised user interfaces for optimal detail consumption.
- → Complete solutions can be customised to reflect different nuances in customer's business processes or priorities.
- → Ready to use as is or integrated to existing customer UI.
- → Proven automated models used by a large number of clients.

5. Business Accelerators



DetectX® Products

DetectX® AML Anti Money Laundering

DetectX® BM Business Monitoring

DetectX® CR Credit & Risk Management

DetectX® DC Diagnostic Classification

DetectX® FD Fraud Detection

DetectX® NC Name Checking

DetectX® SC Marketing & Sales Control

6

User Interface alignment with existing Business Process Applications

DetectX®

User Interface alignment with existing Business Process Applications.

Modern workplace productivity is often linked with how an organisation’s business processes are reflected and supported by the IT solutions they use on a daily basis.

DetectX® provide organisations the flexibility to either use the DetectX® products’ user interfaces or to deploy their own systems, but linking those systems to the alert, workflow and notification capabilities of the DetectX® platform.

Lack of user adoption is responsible for 70% of failed projects

Forrester

Modern workplace productivity is often linked with how an organisation’s business processes are reflected and supported by the IT solutions they use on a daily basis.

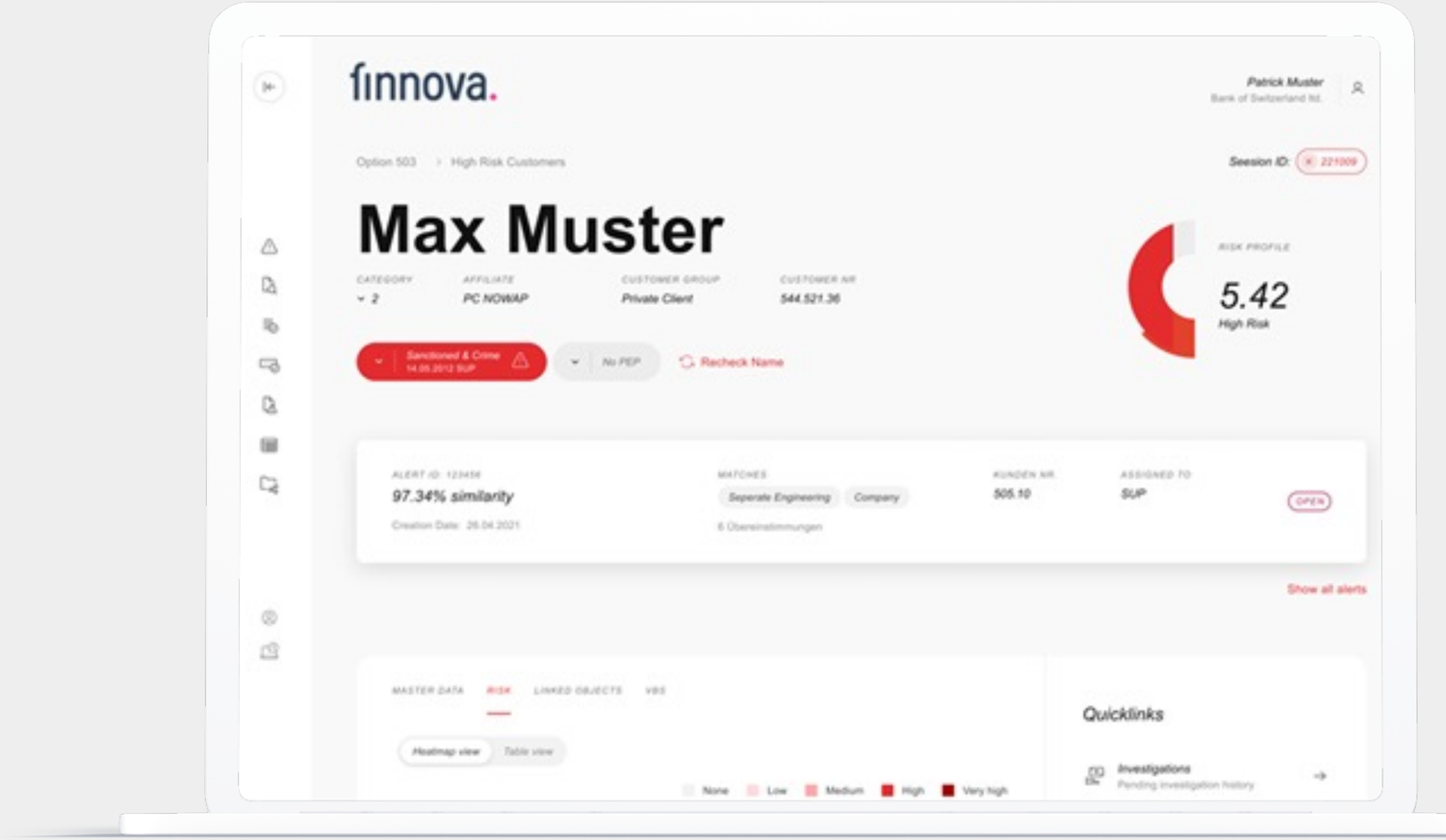
DetectX® provide organisations the flexibility to either use the DetectX® products’ user interfaces or to deploy their own systems, but linking those systems to the alert, workflow and notification capabilities of the DetectX® platform.

The following possibilities in the platform and products allow customers to align their daily processes with DetectX®

- → Comprehensive Alert Viewer Dashboard with access to alerts, actions and detailed information.
- → Bi-directional integration with customer's bespoke systems, allowing users to benefit from predictive analytics within tools already known to them.
- → Ability to embed into new collaboration tools like Microsoft Teams and SharePoint.
- → Ability to create own custom front end.

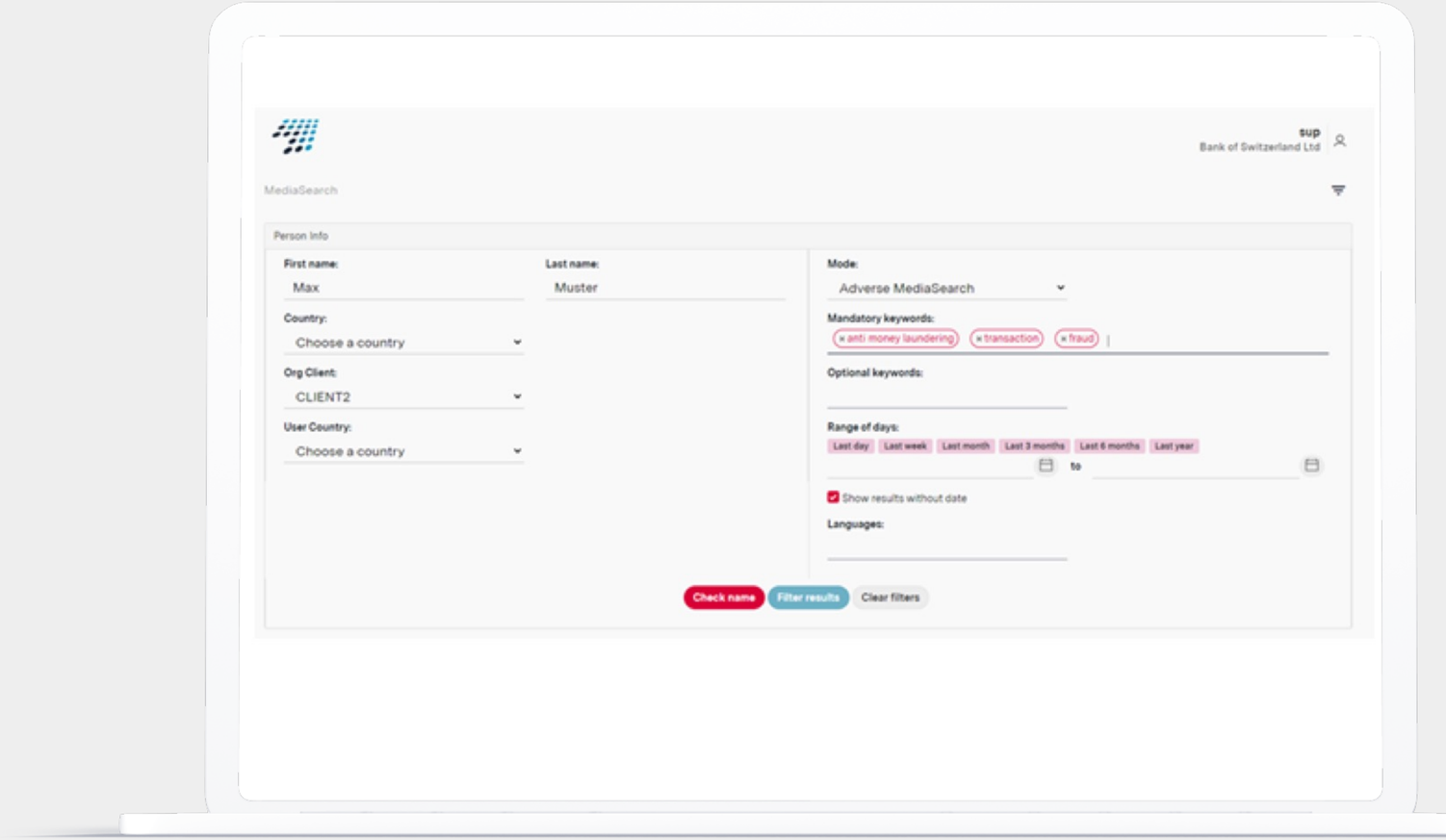
Finnova

Example of User Interface alignment with existing Business Process Applications.



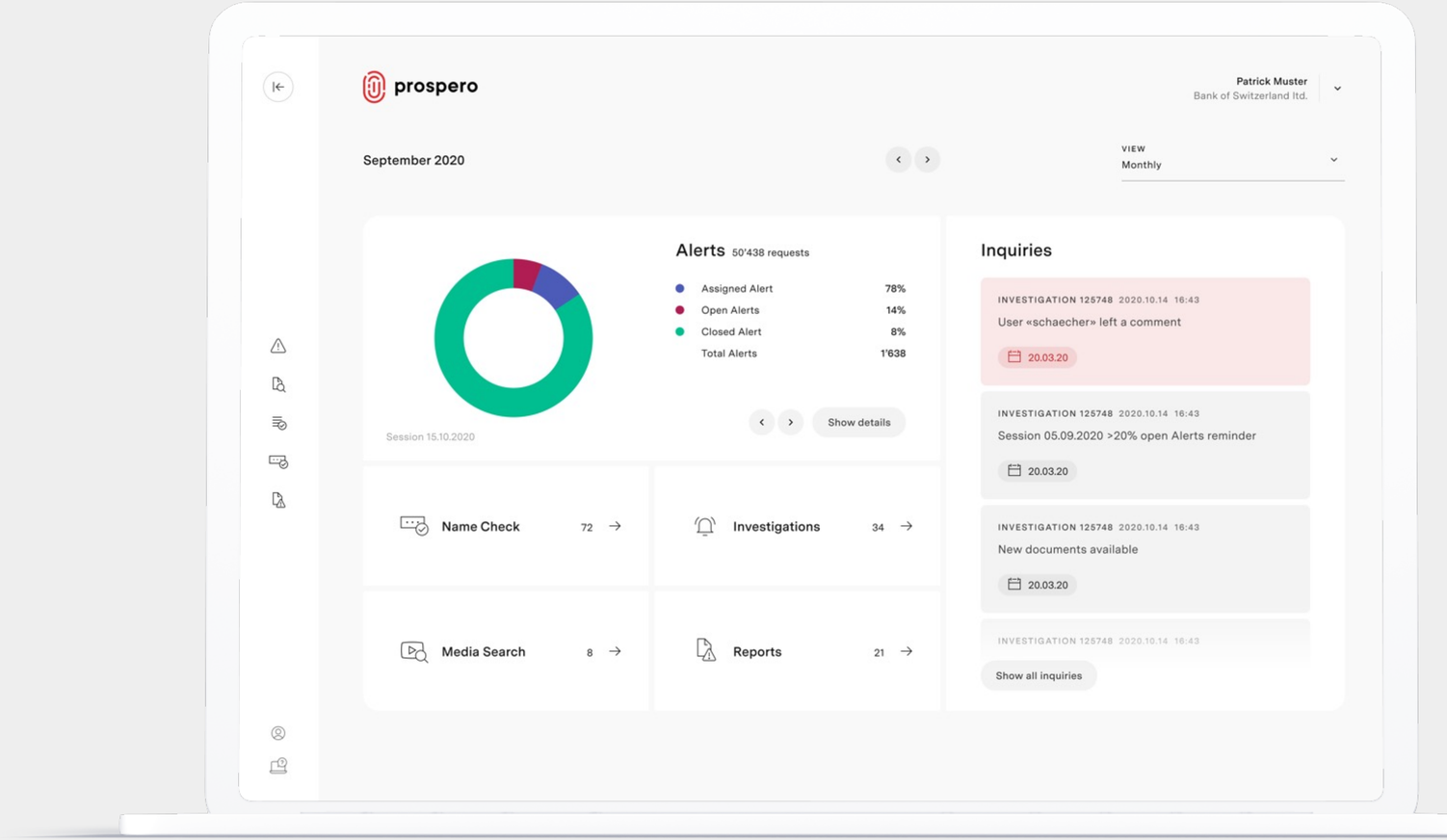
Message Di Allerta

Example of User Interface alignment with existing Business Process Applications.



DetectX platform

Standard User Interface.



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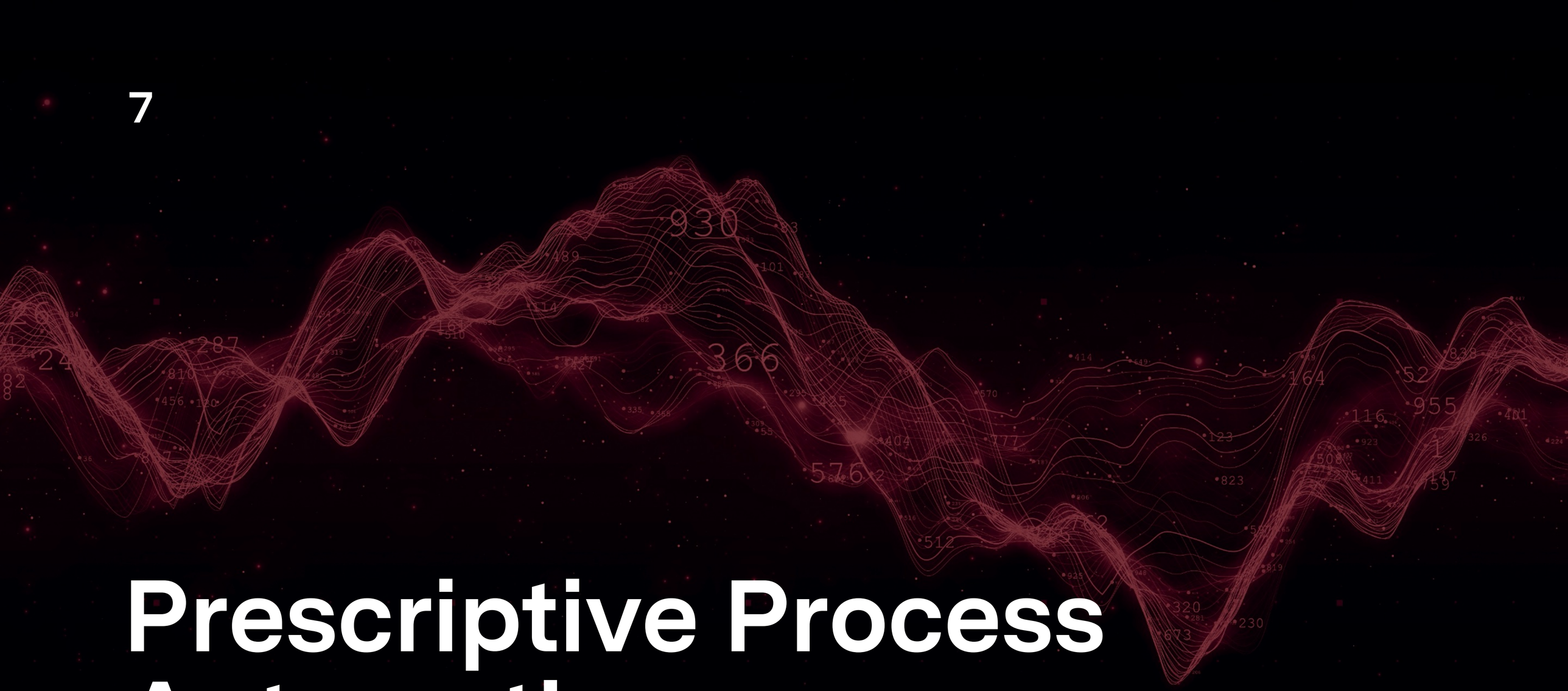
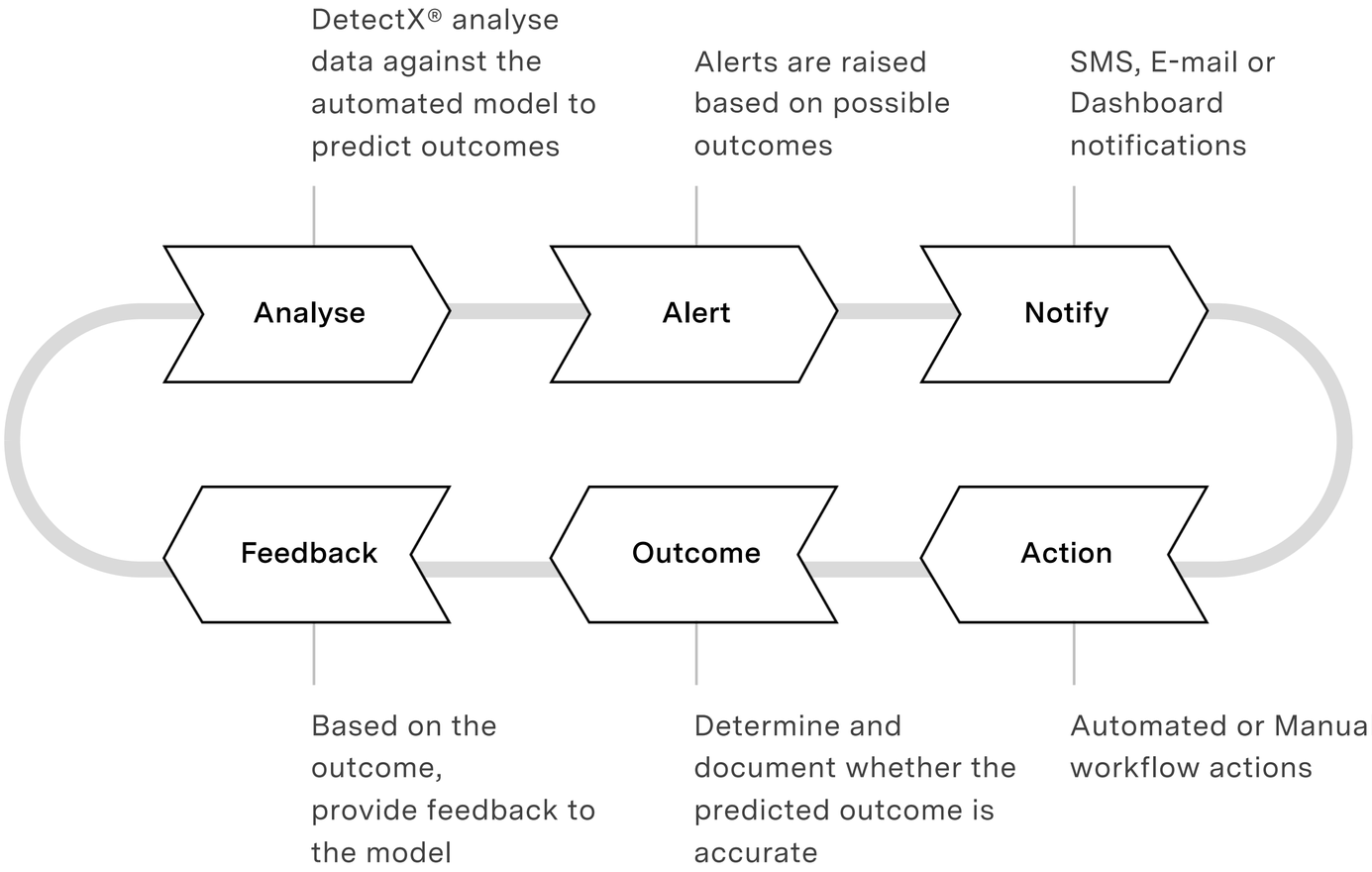


Prescriptive Process Automation

DetectX®

7. Prescriptive Process Automation

The platform supports the ability to configure and execute an automated process with notifications, alerts, deadlines, task management (assignment) as well as the option to provide feedback to the Automated Model.



Process Automation capability consists of the following elements

- → Workflow design and execution capabilities.
- → Notification system with messaging, email and action list.
- → Service level, escalation notifications when actions are not completed in time
- → Alert driven workflows (business processes initiated with new alert instances).
- → With preconfigured workflows it is easy to configure business action workflows dependent on the analysis results

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