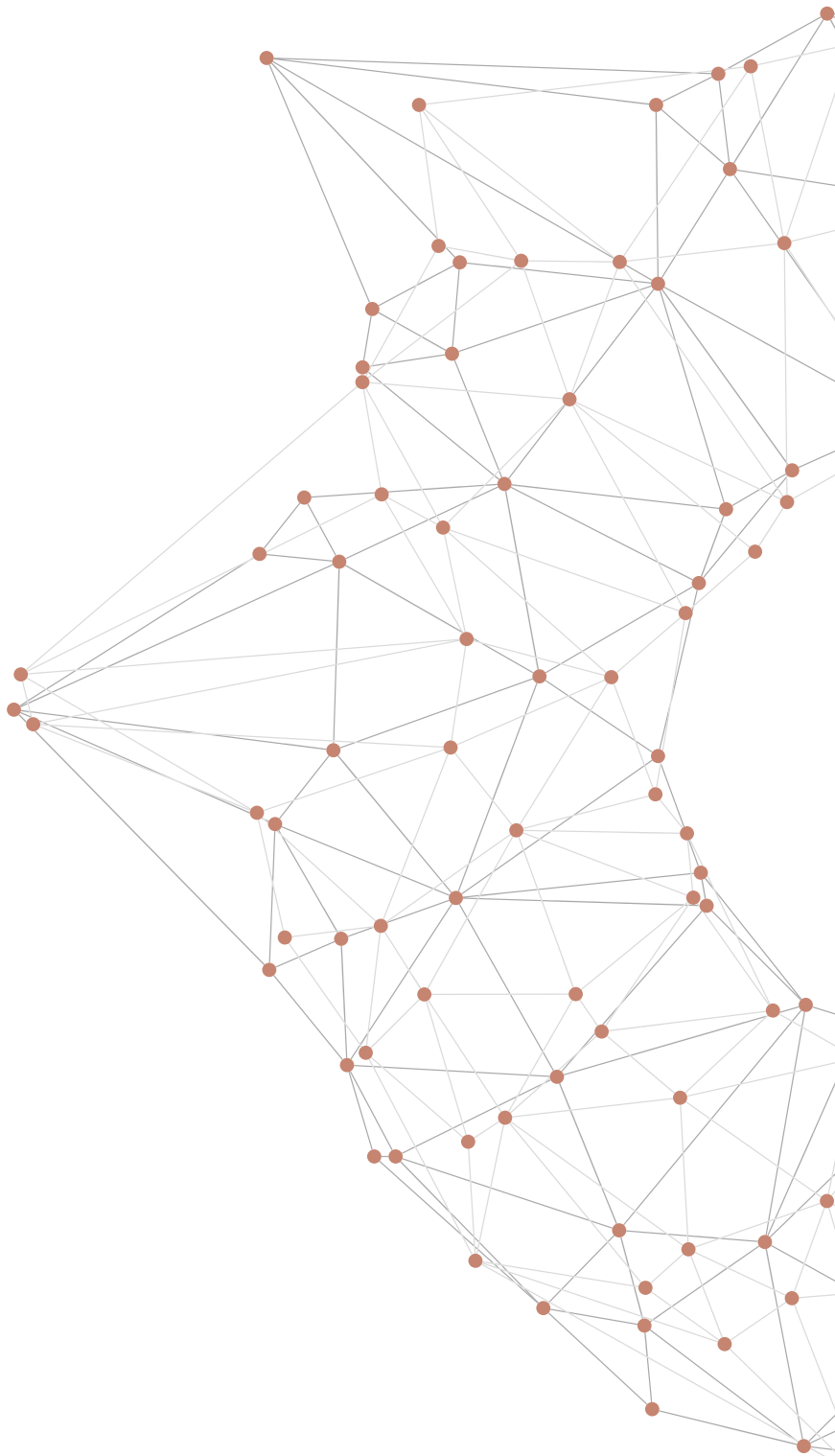




RISKCEDE

Bespoke
Data
Solutions



KNOW

OVERVIEW

KNOW provides a seamless analysis and reporting platform, integrating healthcare and related data in real time. The result is a holistic view on all factors that impact on decisions and strategy.

PLATFORM

RISKCEDE PROVIDES **END TO END DATA SOLUTIONS**. THIS MEANS THAT WITH ONE SOFTWARE SOLUTION THE CLIENT CAN PERFORM ALL ACTIONS FROM GATHERING AND COLLECTING DATA, TRANSFORMING AND MODELLING IT, PREPARING REPORTS AND VISUALISING RESULTS AND FINALLY DEPLOYING OUTPUT FOR INTERACTIVE ANALYSIS.

USING JUST **ONE SOFTWARE SOLUTION**, NOT ONLY INCREASES SPEED, BUT ALSO REMOVES POSSIBLE ERRORS AND ANOMALIES THAT MIGHT COME FROM TRYING TO INTEGRATE MULTIPLE SETS OF SOFTWARE. ANOTHER ADVANTAGE IS THAT IT DOES NOT CREATE MULTIPLE DATA SOURCES THAT HAVE TO BE KEPT IN SYNC.

RISKCEDE **SOFTWARE IS ONLINE** AND DOES NOT REQUIRE ANY DESKTOP INSTALLATION, IT IS PLATFORM INDEPENDENT AND WORKS ON ALL INTERNET BROWSERS. IT CAN BE HOSTED ON SECURE RISKCEDE SERVERS, OR INTERNALLY ON THE CLIENT'S OWN SERVERS. RISKCEDE ENCRYPTS ALL SENSITIVE DATA AND USES USER AUTHENTICATION FOR ALL ONLINE APPLICATIONS.

RISKCEDE

DATA SCIENCE PIPELINE

- GATHER AND IMPORT DATA
- WRANGLE DATA
- MODELLING AND MACHINE LEARNING
- VISUALISATION
- COMMUNICATION
- INTERACTIVITY

ANALYTICS

RISKCEDE USES ANALYTICS, PREDICTIVE MODELS, STATISTICAL ANALYSIS AND MODELLING, DATA MINING, SENTIMENT AND WHAT-IF ANALYSIS AND MORE TO PROVIDE SOLUTIONS.

ACUMEN

THE ACUMEN SOFTWARE CREATES AN ECOSYSTEM OF PROGRAMMES WHERE PATIENTS AND HEALTHCARE PROVIDERS INTERACT WITH EACH OTHER AND THE ACTUAL SYSTEM.

PARTICIPANTS PROVIDE REGULAR INFORMATION USING THE MOBILE APP.

SURVEYS

THE SURVEY APPLICATION IS USED TO BUILD IN DEPTH ANALYSIS ON PARTICIPANT PERCEPTIONS.

THE BIGGEST ADVANTAGE IS THE SPEED AT WHICH THESE SURVEYS CAN BE CREATED AND THE REALTIME FEEDBACK GENERATED FROM IT.

INTEGRATION

THE SOFTWARE INTEGRATES WELL WITH THIRD PARTIES, EITHER RECEIVING INFORMATION OR SENDING INFORMATION. TWO GENERIC METHODS USED ARE FTP AND API STEPS, BUT CUSTOM INTEGRATION CAN ALSO BE DONE.

THE SYSTEM IS HIGHLY SCALABLE AND TIME TO MARKET IS EXTREMELY QUICK.



RISKCEDE

KNOW

HEALTH ANALYTICS PLATFORM



DATA



WRANGLE



EXPLORE



MODEL



REPORT

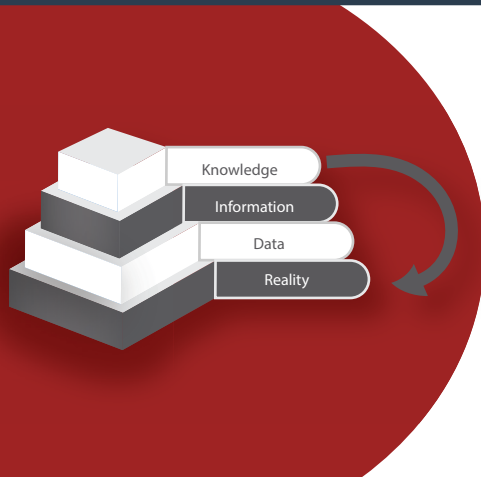
OBJECTIVE

KNOW provides a **seamless analysis and reporting platform**, integrating healthcare and related data in real time. The result is a **holistic view** on all factors that impact on decisions and strategy.

It provides the capability to perform in-depth **exploratory data analysis** and apply a wide array of machine learning models. **Benchmarks** are also available for certain statistics and research. Web APIs can also run on this platform.

Applications that run on the KNOW platform include pattern detection and **fraud, waste and abuse** identification, simulations for **product development**, perception measurement with **surveys** and process management for **managed healthcare and wellness**.

PLATFORM



MACHINE LEARNING

Use algorithms to detect patterns and identify anomalies.

Run behavioural models to compare providers to their peers.

Run all claims through models to identify claims to be investigated further.

PERCEPTION MEASUREMENT

Gather insights into perceptions based on survey data.

Predict behaviour in specific scenarios.

Develop products and view impact of changes.

Structured reporting and impact analysis on specific variables.

SIMULATION

Identify potential high risk cases.

Implement base plans (Stress and Diabetes) or develop own plans.

Monitor progress and patient change.

PROCESSES MANAGEMENT

KNOW

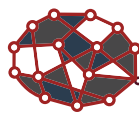
Client Portal

Provide clients with self help portal; analysis and reporting.



Integration

All applications are integrated, eg. design products using data mining and predictive models, combined with satisfaction survey, fwa findings and benchmarks.



Research



- 1 Most effective interventions
- 2 Industry trends
- 3 Knowledge database

DATA MINING

Real-time online results

Correlation matrix

Clustering

Association rules

Geospatial analysis

Time series analysis

Machine learning

Automated reporting

Network of utilised providers

View more info on how this calculation was performed.
Click on nodes to see rules

Select by id

60 PHARMACIES

14 GENERAL PRACTITIONER

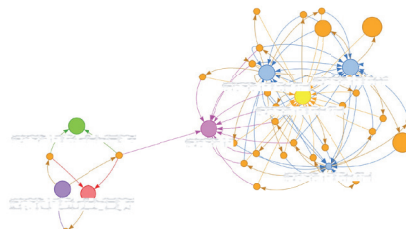
38 RADIOLOGY

46 GENERAL PRACTITIONER

16 GENERAL DENTAL PRACTICE

17 PRIVATE HOSPITALS

100



Scan to go to
Pocket KNOW



KNOW

PLATFORM





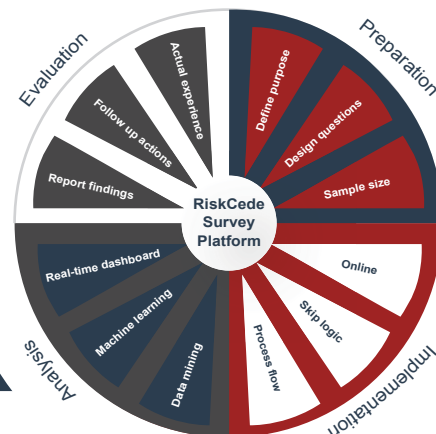
RISKCEDE SMART SURVEYS

OBJECTIVE

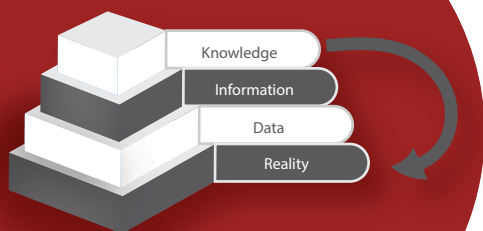
The RiskCede survey offering aims to gather insight into user **perceptions** and predict **behaviour** based on survey data and from the correlation between responses to specific questions.

Smart Surveys is an **end to end solution**; starting with gathering and collecting data, transforming and modelling it, preparing reports, followed by visualising results and finally deploying output for interactive analysis.

RiskCede uses a **methodology** that integrates the question design and statistical analysis to ensure that the initial purpose of the survey is met and the results can be used to provide clearly explainable feedback.



PROCESS



PREPARATION

Define the purpose of the survey with the client and any necessary domain expert.

Design questions to ensure correct and unambiguous feedback.

Calculate sample size and stratified audience.

IMPLEMENTATION

Deploy online for web and mobile. Smart layout, questions dependant on previous answers and analysis.

Process flow following specific outcomes.

Data mining - Descriptive statistics and correlation matrix.

Machine learning - Prediction and classification.

Realtime dashboard.

ANALYSIS

Report and present findings.

Monitor actual vs expected outcomes.

Follow up actions based on process flow.

EVALUATION

SURVEY

Identify

Identify individual preferences and behaviours.

Find patterns within the population and detect anomalies.



Classify

Categorise respondents with specific clustering methods.

Apply targeted strategies to different categories.



Benefits

- 1 Communication
- 2 Targeted Surveys
- 3 Market Segmentation
- 4 Follow Up Actions

DATA MINING

Real-time online results

Correlation matrix

Clustering

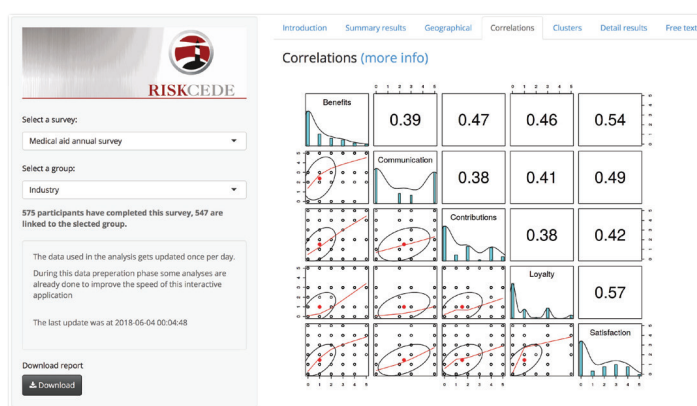
Association rules

Geospatial analysis

Time series analysis

Machine learning

Automated reporting



Scan to experience the Survey App





RISKCEDE ACUMEN



OBJECTIVE

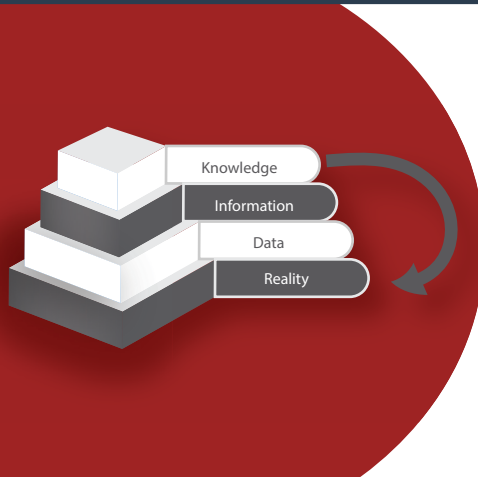
The purpose of this healthcare software is to optimally **manage** members health and wellness.

The system **automates processes** allowing for scalability, but uses dynamic content to ensure targeted communication and interventions on an individual patient level. In summary, the software allows in depth management of a large number of patients.

The software **integrates** well with third parties, either receiving information or sending information. Claim and membership data can also be integrated into the database and be used to do automated tests, etc.

This data is analysed and presented in a way to give a clear overview of the **population** risks and detailed insight for each **individual** patient.

PROCESS



ASSESS RISK

By applying various well researched health assessments it is possible to categorise participants into different risk categories for underlying morbidities.

This creates homogenous groups, but also indicates the severity of risks on an individual level. In turn this allows for the application of different intervention strategies for each group.

COMMUNICATE RESULTS

Both risks and mitigating strategies. It has been found that educating participants on their risks, the impact thereof on their future health and mitigating strategies, has an immediate positive impact on their health and willingness to live healthier.

Assist in reducing specific risks. This is done either through consultations with a wide variety of healthcare providers, or through system interaction, mostly via the participant's mobile device.

INTERVENTION PROGRAMMES

The final step is to continuously monitor the participant's health. This will indicate the effectiveness of the above interventions and when it is necessary to reclassify a participant.

MONITOR PROGRESS

ACUMEN

Programmes

Programmes are designed to manage and improve specific morbidities. RiskCede has a few core programmes (Lifestyle, Stress, Diabetes, Cardiovascular and Stroke), but clients can build up a library of their own programmes.



Self reporting

Implemented through the mobile app. Automated notifications is sent keep member engaged.



Patient records

All data and analysis done are stored in an electronic record for the member and is available to view online. This also includes images, x-rays.



DATA MINING

Real-time online results

Correlation matrix

Clustering

Association rules

Geospatial analysis

Time series analysis

Machine learning

Automated reporting



Scan to take our stress assessment





RISKCEDE

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