



**RISK**CEDE

Bespoke Data Solutions

# About Us

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.

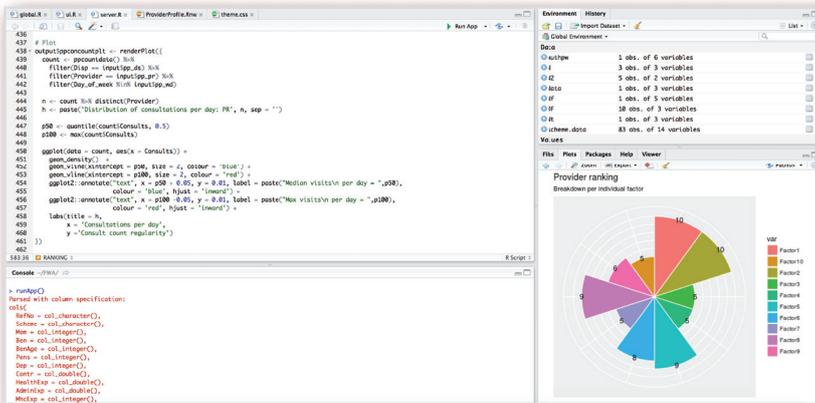


Figure 1: Data mining

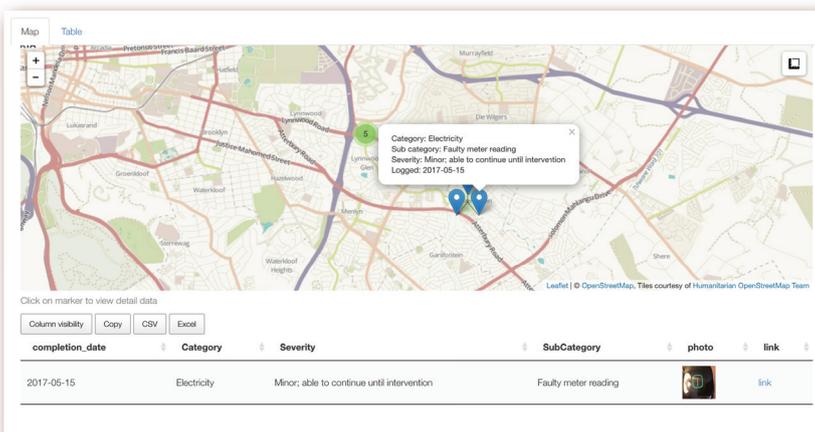


Figure 2: Spatial data

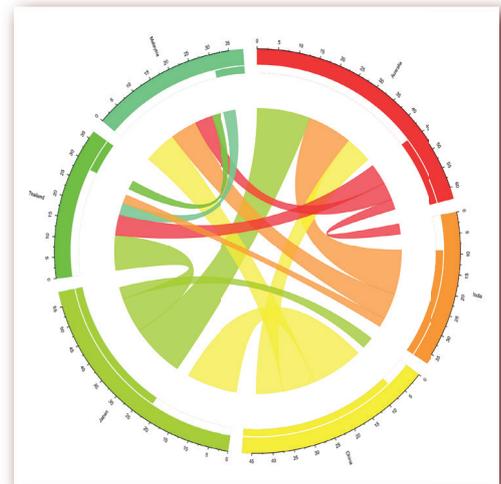


Figure 3: Migration visualisation

Our **time to market** is extremely fast. Using our combined experience of data products in a wide range of markets, we are able to assist clients in creating project specifications that will ensure their needs are met. RiskCede follows the principals of reproducible research and as such only use scripting for our analysis and modelling. For example, we never capture data, we always use scripts to gather data, thus whenever the underlying data change, it will automatically be updated in all models and calculations by rerunning the data script.



# Data Science Pipeline

**Import and gather data.** The process of getting data into a model for analysis is different for each different source of data, internal or external databases, flat files such as csv, excel files, geographic or sensor data, or even data published on websites. The RiskCede platform provides processes for importing each of these sources of data, thus rather than using various manual techniques, RiskCede deploys standardised scripts for getting the data. Also, since it is scripted, it is easy to accommodate changes in the data structure, or simply to upload newly updated data.

**Wrangle data.** RiskCede applies the principles of 'tidy data', a specific format for all data. Once data is in a tidy format, all models, analysis and reporting can use this single format as input.

**Modelling and machine learning.** Machine learning techniques are used for regression and classification models. The advantage of doing this in one platform is that the data is readily available and does not have to be exported to another system for analysis.

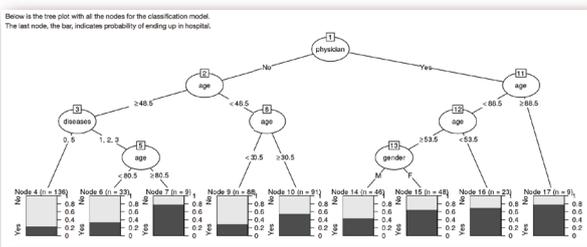


Figure 4: Machine learning

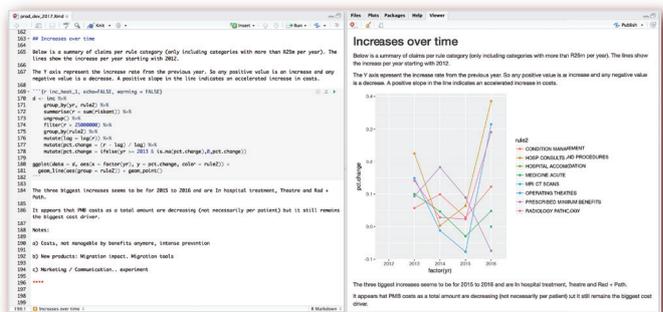


Figure 5: Dynamic reports

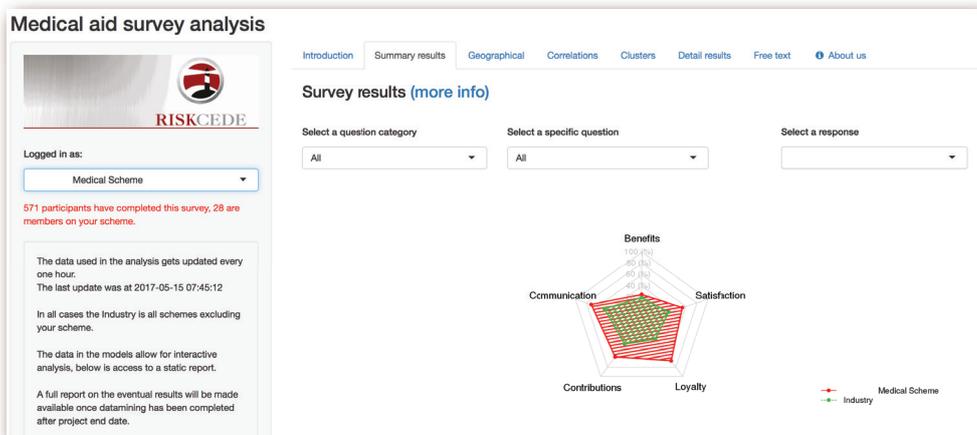


Figure 6: Interactive application

**Visualisation.** RiskCede uses a large library of graphing tools to apply the best graph to the result or analysis. Illustrating results visually is an important part of the data science pipeline.

**Communication.** Yet another advantage of using a single platform is that the results and findings of the modelling and data mining stage can be directly embedded in reports. This means that each time a model is rerun, or a data source changed, it is not necessary to copy results over to a report, the report is simply rerun, new data is pulled in, analysis is performed and a new updated report is produced. These reports can be automated to be emailed to a list of users, either on a time based cycle or each time certain events take place, e.g. after a certain amount of sales.

**Interactivity.** The final part of the solution is interactivity, where users can change input parameters or output types themselves and view the results in an online application.





# Contact Us



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