Swiss Re

Cyber Analytics Platform

EN

Facing global risks

Two-thirds of global losses are uninsured

Road safety
There are 1.2 million road casualties a year. Driver and vehicle scoring, as well as technologies like driver assistance (ADAS), can help us dramatically reduce road casualties and develop a safer mobility future.

Cyber risk
The annual cost of cyber crime to the global economy exceeds USD 600 billion. Cyber solutions help us better manage and mitigate risks.

Natural catastrophes
The natural catastrophe protection gap totalled USD 193 billion in 2017. Parametric solutions can make insurance more accessible, affordable and provide immediate pay out for individuals and businesses to bounce back quickly.

Food security
With only 25% of the agricultural market insured, the market is full of opportunities to grow. Agricultural re/insurance solutions leverage latest technologies to help farmers best manage crops and recover from losses faster.

Solutions for a more resilient world

We help you grow your business and improve your profitability

By leveraging our risk expertise, strong capital base and new technology, we help you **grow your business** and **improve your profitability** by developing innovative solutions and by sharing the risk.

P&C Solutions: Support across your entire value chain

From innovative design to claims optimisation

P&C Solutions for your every need

Increase efficiency, steer portfolios and grow into new markets and segments

P&C Analytics

- Portfolio Insights interactive risk visualisation for steering and growth
- Tailored P&C Analytics consultancy services to solve your every need
- Behavioural Economics solutions to boost client conversion & retention

Property & Specialty

- CatNet® natural hazard risk analyser
- CatServer: NatCat modelling and expertise for your tools
- Sophisticated engineering underwriting with PUMA
- Agro Suite modular, end-to-end agriculture solutions

Cyber

- Cyber Product Suite for cyber insurance product development
- **Cyber Analytics Platform**: Score and manage portfolios & accumulation
- Identify and manage silent cyber exposures with Decrypt

Liability

- Analyse and model liability portfolios with Forward-Looking Modelling (FLM) to grow into new markets and segments
- Manage Casualty Accumulation risks

Parametric

- End-to-end pricing, risk monitoring, policy administration, automated claims pay out and real-time reporting for:
  - Flight delay
  - Earthquake
  - Tropical cyclone

Automotive & Mobility

- Insurance-relevant driver scoring with end-to-end telematics solution
- Grow strategically and steer portfolios with Motor Market Analyser
- Assess vehicle safety features with the ADAS Risk Score

SwiftRe®

- Online risk placement, claims and accounting platform
- Cost-effective risk management
- Full transparency into entire portfolio

Innovation

- Agile (co-)creation of next generation solutions
- Access to new risk pools and markets
- Fast development and time-to-market via Swiss Re's partner ecosystem

01

Opportunity

Embracing the change

Bespoke analytics platform to help you better understand and steer your cyber portfolio.

What is it?

A platform for **cyber risk assessments** and **portfolio steering**, allowing you to **obtain risk scores** for a single company, portfolios and industries, perform **peer comparisons** and **identify accumulation** areas.

How do you benefit?

Rapidly get a **better understanding** of your cyber portfolio, for **better steering** and **growth opportunities**. Gain **support in underwriting** with key information on your risks.

Bespoke analytics to help you steer and grow your cyber business

The opportunity

The rapidly changing risk landscape has made it increasingly complex and costly to understand and steer cyber business.

- Assessing cyber risk is intricate and time-consuming.
- Understanding and steering cyber business is becoming more complex. Deriving actionable insights is operationally challenging.
- Allocating risk capital can be challenging, especially given the accumulating potential of cyber risk.

The solution

We combine state-of-the-art data science techniques, extensive risk knowledge and profound industry expertise to help you:

- Obtain cyber risk scores for individual companies and entire portfolios.
- Get an outside-in perspective on your risks, portfolio and wider industries.
- Evaluate accumulation areas in your portfolio.
- Interactively visualise your portfolio, filter data and apply different perspectives.

Your benefits

Swiss Re's Cyber Analytics Platform helps you grow your business and better understand and steer your portfolio by enabling you to:

- Assess cyber risk quality of an individual account as part of the underwriting process.
- Understand your portfolio composition and performance drivers.
- Define target markets and industry segments for you to steer your portfolio.
- Perform peer comparisons and single risk searches to scout for new targets.
- Complement the traditional approach (questionnaire), offering an objective point of comparison.

02

Value Proposition

Two complementary views to better understand cyber risk

Single risk view

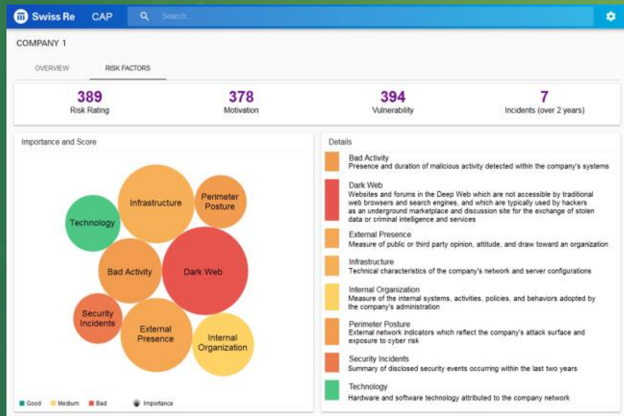
Visualisation of company in terms of:

- Cyber risk score for company based on:
  - Company motivation score
  - Company vulnerability score
- Risk factors behind the risk score
- Company information e.g. revenue, industry etc.
- Key technology information
- Comparison with peer companies (of the assessed company)
- KPIs e.g. number of incidents

Use case: Company lookup

An underwriter looks up a company in CAP. The platform displays the **risk score**, related **factors**, along with **motivation** and **vulnerability** scorings.

CAP lists **information** on **company** (revenue, industry, location etc.) and on **technology** used by the company. The underwriter can also compare the company with its **peers**.



Two complementary views to better understand cyber risk

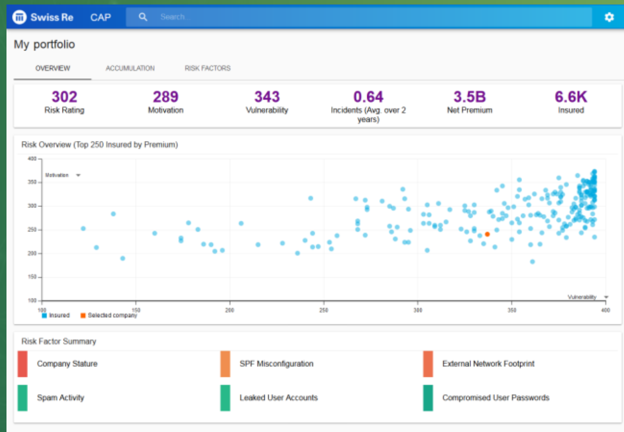
Portfolio view

Visualisation of company in terms of:

- Aggregated risk score of portfolio, based on:
  - Aggregate motivation score of portfolio
  - Aggregate vulnerability score of portfolio
- Risk factors behind the risk score
- Overview of portfolio structure: number of insureds, industry segments, countries etc.
- Comparison with portfolio peer companies
- Identification of accumulation areas

Use case: Company lookup

An underwriter or risk engineer uploads a portfolio. CAP provides a visualisation of **portfolio** companies on a **scatterplot** in terms of **risk score**, **motivation** (of adversaries to attack the company) and **vulnerability** (to be attacked by other companies) and associated **risk factors.**
The underwriter is able to **compare** the portfolio risk profile with **peer companies** within the same industry, location and revenue band. The **accumulation** tab shows risk



Swiss Re's cloud-hosted solution based on third-party data

Client data

We analyse client data in the form of structured portfolio templates which the client can upload directly into the platform, in their cloud instance.

Swiss Re model

Our modelling expertise, industry knowledge and data processing know-how allow us to deliver a powerful analysis and visualization of the client portfolio, as well as the interpretation thereof.

External data

To provide a comprehensive data perspective, we enrich the internal Swiss Re data view with an external perspective. To this end, we collaborate with an industry expert which provides us with risk scores.

Portfolio steering

Efficiency and agility in the cloud

Strategic growth

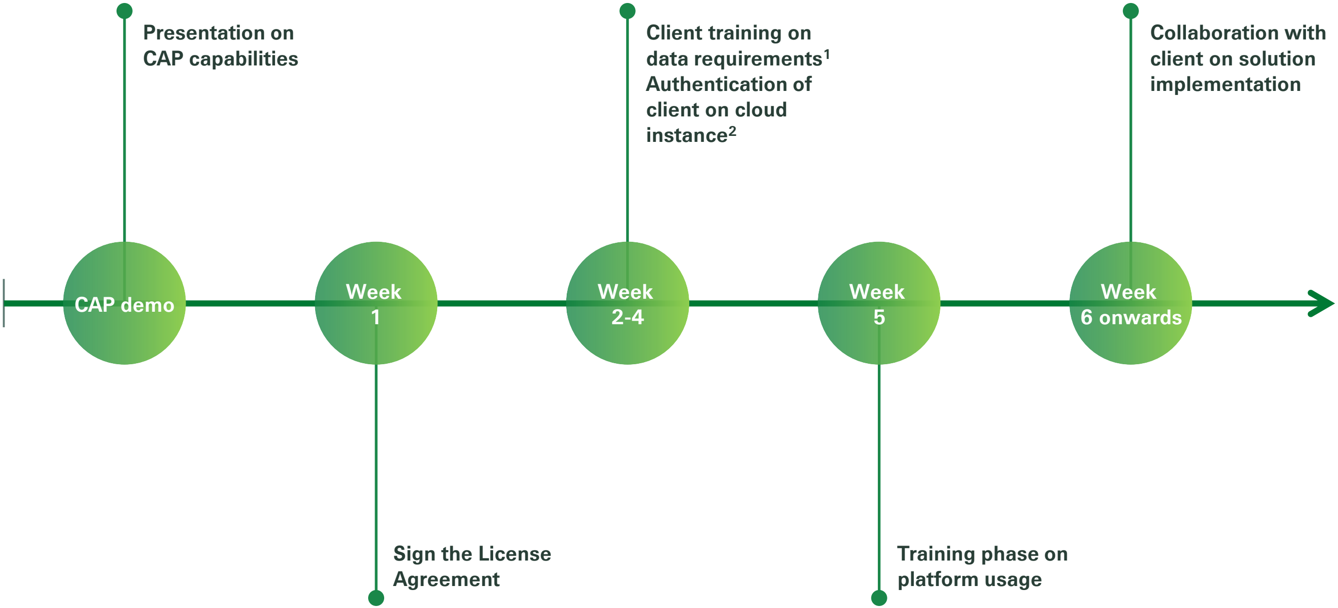
Swiss Re experts are here to offer guidance through a collaborative approach

03

Rollout

Project scope and duration tailored to your needs

We work closely with you to adjust to your preferences



1 Data extraction on client side can take an extended period of time depending on their internal systems
2 Authentication on Microsoft Azure Cloud requires hand-shake with client IT team and Swiss Re. NB: Can take time due to potential authentication issues

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We're smarter together

Swiss Re