

# Data Sciences

## **Why Large &/or Complex Captive Owners Need Data Science?**

Turn complexity into clarity. As a large and unique business, your risks can be somewhat intricate. By integrating rigorous risk management, data-driven insights, strategic consulting, and actuarial precision, we empower your business to navigate challenges and seize opportunities with confidence. And we can start by harnessing the power of your data.

## **How SRS Data Science Transforms Captive Management**

### **Automated Risk Scoring & Member Benchmarking**

- Compare individual group members' loss ratios and safety performance against benchmarks.
- Reward top-performing members with lower premiums, reinforcing positive risk behaviors

## **Why Work with SRS for Data Science?**

Our team blends captive insurance knowledge with cutting-edge data science, ensuring solutions are practical, compliant, and value driven. You'll get:

### **Industry-Leading Expertise**

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### **Customizable Solutions**

Whether a single-parent captive, group captive, or cell facility, our models adapt to unique structures, risks, and industries.

### **Proven Impact**

Captives leveraging SRS Data Science experience stronger financial outcomes, better risk insights, and streamlined operations.

## **Data Science Services**

### **Dynamic Risk Modeling for Group Captives**

- Run simulations to assess the impact of large losses on surplus
- Provide stress testing for catastrophic events or market downturns

### **Data Visualization & Custom Dashboards**

- Interactive dashboards for real-time financial and claims monitoring
- Customizable reports for actuarial analysis and board presentations
- Embedded AI capabilities offering real time insights

### **Case Studies: Data Science in Action - Provided Real-Time Claim and Profitability Insights with AI**

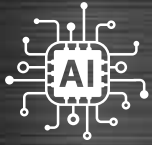
Leveraged dashboards live data feed to offer loss ratios and claim-driven metrics. By layering with AI, automated data analytics allowed for additional awareness of opportunities to improve captive performance.

### **Optimized Multinational Captive's Financial Statement Preparation and Reporting**

Using advanced technology, an SRS-managed captive implemented standardized ETL practices to streamline the transformation of large volume, unstructured data into detailed accounting entries used to produce standard financial and customized reporting.

### **Automated Compliance for the Captive of a Global Company**

A captive facing strict reporting requirements implemented SRS' automated regulatory system, cutting reporting time while improving accuracy.



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## How Your Company Will Benefit from our Data Science Services

### ***Improved Underwriting Precision***

Traditional underwriting relies on static loss data, but with dynamic pricing and cutting-edge modeling technology, we help captives assess risk proactively. This enables:

- More accurate premium pricing based on real-time risk factors
- Early identification of high-risk members or trends
- Custom-tailored coverage solutions that align with risk appetite
- Procedural automation and validation ensuring accuracy and timeliness

### ***Loss Control & Claims Optimization***

Captives thrive when losses are controlled. Our data-driven loss analysis tools allow captives to:

- Pinpoint emerging risk patterns before they escalate into costly claims
- Identify high-frequency, high-severity claim types for targeted mitigation
- Automate claims tracking and reporting, reducing administrative burdens

### ***Regulatory & Compliance Efficiency***

Managing regulatory compliance across multiple jurisdictions can be resource-intensive due to highly specific requirements. Our data science solutions help captives:

- Automate compliance reporting and audit processes

- Monitor financial health metrics with real-time dashboards
- Ensure accurate and timely data submissions for regulators and stakeholders

### ***Financial Performance & Surplus Optimization***

Captive surplus is more than just a number—it's a key driver of long-term success. SRS uses advanced financial modeling to:

- Optimize capital allocation and surplus reserves
- Identify investment opportunities for captive growth
- Reduce volatility and improve risk-adjusted returns

## **Let's Talk!**

Email us at [datascience@strategicrisks.com](mailto:datascience@strategicrisks.com) to explore how data-driven strategies can elevate your captive's performance.

