



# Crowe data analytics

- Critical compliance and decision-making support in a dynamic credit environment

Crowe offers advanced data analytics capabilities that can help financial organizations leverage big data to improve compliance management while also cultivating useful information for better decision-making.

## Compliance and performance in the era of big data

Financial services organizations today have access to more data from more sources than ever before and must analyze and react to information in real time. Traditional compliance management and analysis tools often are inadequate for the volume, variety, and velocity of data in the big data era.

The challenge is further complicated by today's fast-changing regulatory environment and clear signals that examiners will be devoting increasing attention to how organizations use data to manage risk and make decisions.

As a consequence, financial services organizations of all sizes are finding they must advance their analytic capabilities to meet evolving regulatory expectations in a challenging data environment.

## Crowe advanced risk analytics address the challenge

Crowe advanced risk analytics services are designed to help banks, credit unions, and other financial services organizations leverage big data to enhance their analytic processes. Crowe technology teams have extensive experience helping lenders develop and deploy advanced analytic tools that can

turn unmanageable sets of data into meaningful information that not only supports compliance but also drives better decision-making and adds lasting value.

Crowe risk data analytics teams have deep understanding of technical disciplines such as data science and quantitative analysis, along with hands-on experience with many of today's most advanced financial industry technology solutions. These technical strengths are reinforced by a solid foundation of industry expertise, which Crowe has built over the course of more than 50 years of helping banks and other organizations maintain compliance while also enhancing operational and financial performance.

## Flexible, adaptable, and readily repeatable

From community and regional banks and credit unions to large national and international financial services companies, a wide variety of organizations can benefit from Crowe data analytics capabilities, including those doing:

- Data mining
- Data curation
- Quantitative analytics
- Statistical modeling
- Anomaly-based sampling and analysis
- Model validation
- Data visualization

Crowe analytic tools are designed to be readily repeatable, providing solutions that can be easily maintained and updated with capabilities that can be readily leveraged for future projects.

## A portfolio of advanced analytic services

Crowe teams offer a comprehensive portfolio of focused, advanced analytic services to address a broad range of issues:

### **UDAAP compliance**

Crowe provides extensive analytic capabilities to support compliance with Consumer Financial Protection Bureau (CFPB) regulations prohibiting unfair, deceptive, or abusive acts or practices (UDAAP). Our services include:

- Core system fee analysis and lookback services
- Consumer contact practices analysis
- Consumer response analysis
- Overdraft practices analysis
- Debt collection analysis

### **Fair lending compliance**

Compliance with CFPB and Federal Financial Institutions Examination Council (FFIEC) fair lending requirements typically involves extensive statistical analysis of application and underwriting data to detect patterns that might suggest inequities relating to sensitive criteria. Crowe advanced risk data analytics include:

- *Home Mortgage Disclosure Act* compliance analysis
- Underwriting and pricing regression analysis
- Market penetration analysis
- Redlining analysis
- Marketing analysis
- Fair lending model validation
- Consumer proxy analysis
- Bayesian Improved Surname Geocoding analysis
- Automotive portfolio and dealer analysis
- Credit card analysis

### **CRA compliance**

Statistical analysis is essential to *Community Reinvestment Act* (CRA) compliance. Crowe risk data analytics offer valuable support in:

- Peer comparison and benchmarking
- Geoprocessing
- Market and assessment area penetration analysis
- Strategic planning analysis

### **M&A analysis**

Merger and acquisition (M&A) activities often trigger the need for advanced data analytics, not only as part of financial due diligence but often during the negotiation and post-merger integration phases as well. Crowe advanced analytics provide in-depth analytic support for whole bank acquisitions as well as acquisitions of specific deposit bases, portfolios, or portfolio components.

### **Model validation**

Crowe risk data analytics teams support validation for a broad range of models, including fair lending and CRA, allowance for loan and lease losses, anti-money laundering, and other models. The Crowe validation approach is aligned with Office of the Comptroller of the Currency and Federal Reserve model risk management guidance, encompassing:

- Conceptual design validation
- System validation
- Data validation
- Process validation



## Contact us

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## About Crowe

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