

FINANCE & ACCOUNTING

- Financial Analysis & Reporting
- Financial Modeling & Validation
- Quantitative Analysis
- Audit Readiness
- Underwriting Due Diligence and Closing Services

RISK MANAGEMENT

- Internal Controls
- Governance & Compliance
- Risk Assessments

BUSINESS ANALYSIS & REPORTING

- Business Analysis
- Business Process Re-engineering
- Quality Assurance
- Process Improvements

DATA SCIENCE & ANALYTICS

- Data Mining & Analysis
- Data Management,
- Data Quality Assurance
- Predictive Analysis, KPIs

IT SOLUTIONS

- Systems Development Lifecycle
- Requirements Gathering
- Testing
- IT Governance

STRATEGY & MANAGEMENT

- Program & Project Management
- Strategic Planning & Execution
- Change Management

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NUVOLOGIC CONSULTING is a management consulting firm delivering financial management, data analytics, and IT solutions to public and private sector clients. Our core competencies include financial modeling and analysis, independent validation and verification, data management and analytics, program evaluations, and due diligence and compliance reviews. We bring specialized depth in mortgage finance, credit reform, risk management, process optimization, and quantitative analysis equipping our clients to make smarter decisions, manage risk, and execute with confidence. We are a minority, woman-owned small business (WOSB).

OUR APPROACH puts results ahead of process. Our team helps clients identify root causes, improve performance, strengthen controls, and modernize operations through practical, results-driven solutions. We make data meaningful and impactful for decision makers, enabling informed program and policy decisions through predictive analytics, econometrics, statistical analysis, data analytics, and insightful reports and visualizations. We integrate subject matter expertise with advanced analytical tools to close operational gaps, anticipate emerging risks, and translate technical findings into clear, actionable guidance. We pride ourselves in matching clients with seasoned professionals who are qualified and skilled in their field. Our Consultants work alongside public and private sector leaders to integrate strategies and technologies that position your organization to meet its mission and goals.

OUR CAPABILITIES span the intersection of financial management, data science, regulatory compliance, and technology giving clients a single, trusted partner across the full lifecycle of complex programs and initiatives.

CONTACT US to support your next project or if you are interested in teaming

ENGAGEMENT HIGHLIGHTS



Model Development & IV&V

NuvoLogic and our subject matter experts develop **financial and loss reserve models** for various programs, such as FHA's Single Family and Multifamily loan programs, HUD's PIH ONAP Section 184, DOD Office of Strategic Capital, USDA, Department of Treasury, and SBA. We have expertise in **Federal Credit Reform** integrating **loss reserve cash flows** with OMB's Credit Subsidy Calculator to support **credit subsidy estimates** and **re-estimates**. We improve accuracy and efficiency of models, remediate audit findings, and develop reports and analytics for management. We perform **model IV&V** of various **loan programs**, ensuring completeness, accuracy, sound economic and statistical methodologies, quality of data inputs and outputs, and functionality of code.



Regulatory Compliance, Due Diligence, Underwriting

NuvoLogic provides expert **regulatory compliance** support, due diligence, and project management services, helping clients navigate complex regulatory environments with transparency and accountability. We support HUD's Multifamily and Residential Care Facilities portfolios through **loan application underwriting reviews**, due diligence, and **loan closing services**, including comprehensive financial analysis and determination of **borrower creditworthiness**. We have conducted full-scope **financial due diligence reviews** encompassing assessment of **financial models**, business plans, contracts, **risk identification**, and scenario analysis delivering structured findings that inform final **credit decisions**. We have assisted a GSE in assessing divisional compliance with corporate model governance standards and FHFA requirements, performing gap analyses, corrective action planning, and model risk governance training. Our compliance engagements extend to internal controls, governance, and audit readiness scopes at HUD, Ginnie Mae, SBA, and the GSEs.



Risk Management & Program Oversight

We assess, quantify, and mitigate risk across credit programs, loan portfolios, and complex government initiatives. Our structured **oversight frameworks**, built on proven methodologies from engagements at SBA, HUD, the GSEs, and Ginnie Mae enable clients to identify vulnerabilities early and maintain continuous program integrity. We support **internal controls, audit readiness, audit remediation, governance, compliance and due diligence** efforts.



Process Improvements

NuvoLogic conducts comprehensive **current state assessments** and documentation of operational processes, leveraging **process mapping** tools to evaluate opportunities to **reduce redundancies, improve efficiencies, tighten internal controls**, increase throughput, and create more meaningful and valuable outcomes. We deliver prioritized recommendations, **cost-benefit analyses**, and implementation roadmaps that drive measurable improvement. We have successfully applied this methodology for DOT's Surface Transportation Board and various HUD program offices, developing and implementing agreed-upon future state processes that delivered lasting operational gains.



Statistical and Economic Analysis

We perform **predictive modeling and statistical analysis** in support of diverse client initiatives, including lending pattern analysis to assess the prevalence of predatory lending across lender portfolios. Our analysts apply GIS tools, advanced statistical techniques, and rigorous **literature review** to support **evidence-based findings** and policy decisions.



IT Governance & PMO

We have performed IT and **data governance** compliance engagements at a large bank, ensuring standardization and regulatory alignment across global divisions. We performed gap assessments and recommended best practices. We facilitated communication between business units and the IT PMO for timely delivery of audit remediation items, and worked with business units to inventory **shadow technology**, assets, and applications.



Business Analysis & Systems Implementation Support

Our team delivers SDLC support, **systems integration**, and **digital transformation** solutions that reduce complexity and align technology investments with mission priorities. Our consultants serve as the **liaison between IT and business**. We have provided end-to-end SDLC support for a large GSE financial system implementation, spanning requirements gathering, testing, and training.



Data Modernization & Enterprise Architecture

NuvoLogic assesses and reengineers **data management** processes to drive efficiency and performance. For one client, stakeholder interviews, database consolidation, cloud migration and process improvements yielded a **30% improvement in operational processes** and 80% in database performance. We have also helped USDA advance its enterprise architecture maturity by developing **EA and Data Governance Frameworks**, establishing system inventories inform portfolio investment decisions, and designing as-is/to-be architectures and EA models.