

#### 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
- Program Evaluations

#### 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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GSA MAS Schedule

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GSA 8(a) STARS III

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GSA Schedule



**NUVOLOGIC CONSULTING** is a management consulting firm focused on financial management and IT solutions for private and public sector clients. We have strengths particularly in data management, quantitative and qualitative analysis, mortgage finance, credit reform, and risk management. We are 8(a) certified, and a minority, woman-owned small business.

**OUR APPROACH** allows us to effectively deconstruct pain points, deliver insights, and drive performance. We make data meaningful and impactful for decision makers to make informed program and policy decisions through predictive analytics, econometrics, statistical analysis, data analytics.

We employ root cause analysis to identify underlying issues; practical innovation to provide a customized solution using technologies that best fit your need; integrated partnerships to create more efficient processes and reduce expenses; subject matter leaders to provide insight into industry benchmarks and best practices; agile management to remain engaged throughout the project lifecycle to better address challenges and anticipate what's ahead. We bridge the gap between business and technology to streamline processes and close the communication gap. We pride ourselves in matching clients with seasoned professionals who are qualified and skilled in their field. Our consultants are problem solvers who work alongside public and private sector leaders to integrate strategies and technologies to position your organization to meet your mission and goals.

**OUR CAPABILITIES** encompass strengths in financial and business analysis, competencies in operational functions, adept understanding of policy compliance, and the expertise to navigate the increasing overlap of business and technology work streams. Turn to us for complex business and financial analytics, model development and validations, SDLC support, and project management.

**CONTACT US** to support your next project or if you are interested in teaming with us.

## ENGAGEMENT HIGHLIGHTS



### Model Development & IV&V

NuvoLogic develops financial and loss reserve models for various programs, such as FHA's Single Family and Multifamily programs, HUD's PIH ONAP Section 184, USDA, Department of Treasury, Fannie Mae, SBA, Veteran's Affairs, and DOD. 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.



### Statistical and Economic Analysis

We perform **predictive modeling and statistical analysis** in support of many initiatives, including **fair housing** analysis to determine if predatory lending towards minority groups is prevalent across lenders. We are also conducting redlining analysis and other investigative support using GIS and advanced statistical analytics. We also perform literature reviews as part of our research planning and analytics.



### Governance & Compliance

NuvoLogic assisted a GSE assess divisional compliance with corporate **model governance** and FHFA standards. We performed gap analysis of procedures and **internal controls**. We ensured divisional alignment with corporate standards and addressed Internal Audit findings while developing a corrective action plan. We assisted with operating effectiveness of **model risk governance** practices providing training and documentation. We developed process maps of the **model lifecycle management** process.



### Internal Controls

NuvoLogic Consulting supports Ginnie Mae enhance **internal controls** for its Master Subservicers by providing expertise in **risk management** and **mortgage finance**. We identify gaps, develop process enhancements, and support the **annual audit** of Ginnie Mae's financial statements in collaboration with key stakeholders.



### Underwriting Due Diligence Review

NuvoLogic provides **project management, loan application underwriting reviews and due diligence, and loan closing** services for HUD's Multifamily 223(f), 223(a)(7), and Residential Care Facilities (232) portfolios. Lender underwriting is reviewed, firm commitment issued and loans closed per the **MAP Guide**. Financial analysis and a comprehensive evaluation of underwriting risk is performed, including determination of borrower credit worthiness.

### Program Evaluations

NuvoLogic holds BPAs to conduct program evaluations for the Department of Interior, SBA, and Department of Labor. Our team helps agencies enhance **evidence-based decision-making** and **program effectiveness** by utilizing statistics, evaluation, research, and analysis, including, **mixed-methods based analytics**, formative/process/outcome/impact **evaluations**, quasi-experimental designs, data collection, inventory, analysis, and **survey research**.



### IT Governance & PMO

NuvoLogic supported a global bank in ensuring **IT governance** compliance across all entities by performing gap assessments and recommending 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

Led **requirements gathering, test plan and test cases** development, and **UAT** efforts for a GSE financial system implementation. Consultants worked with systems analysts, developers, data architects, and business to draft and test business and system requirements. NuvoLogic was the **liaison between IT and business**. We developed process maps, enhanced **internal controls**, and conducted training.



### Data Modernization

NuvoLogic assessed and reengineered a client's **data management** processes, identifying areas for improvement and enhanced efficiency. This involved stakeholder interviews, process documentation, **database consolidation, cloud migration**, resulting in streamlined data input, calculations, and reporting.

**Enterprise Architecture** Helped USDA RD improve their EA maturity providing best practices. Developed RD's **EA and Data Governance Framework**. Established and maintained a system inventory to facilitate portfolio investment/architecture decisions; developed as-is/to-be architectures; designed EA models; support data retrieval, mapping and modeling.