GSA | IT MODERNIZATION Centers of Excellence

Data & Analytics Service Catalog

The **Data and Analytics (DA) Center of Excellence (CoE)** works closely with stakeholders, executive sponsors, and working groups to understand the agency's data environment and goals. The team reviews available information, prioritizes user needs, and applies industry best practices to develop an implementation plan and strategy that enables optimal access to agency data. Our service offerings, listed below, include **strategic**, **operational** and **tactical data initiatives**.

♖ STRATEGIC SERVICES

SERVICE	DESCRIPTION	SAMPLE DELIVERABLES
Data Maturity Modeling (DMM)	A DMM assessment allows an agency to evaluate its current state of data management maturity and understand the improvements; essential at strategic and tactical level to its data-management program. *The project entails using an industry framework to assess data capabilities across programs, and provide both individual and enterprise-level maturity ratings.*	• DMM Framework • DMM Scores at Program & Enterprise Level • Maturity Assessment Findings Survey • Data Management Practices Heatmap
MDM (Master Data Management) Readiness & Strategy	An MDM-readiness assessment allows an agency to understand its current master data practices in terms of management, usage, strengths and weaknesses. MDM strategy includes the approach, life-cycle, prioritization model, short-term/long-term goals and a multi-year roadmap to implement MDM over time. *The project entails assessing current MDM capabilities/initiatives/services, and needs, to define target MDM capabilities and craft a multi-year roadmap to achieve it.*	• MDM Assessment Framework • MDM Maturity Scores & Heatmap • MDM Strategy • MDM Prioritization Model • MDM Roadmap • MDM Implementation Plan
Data Strategy & Implementation Plan	A data strategy and implementation plan allows an agency to understand the path to data and analytics maturity, align investments and monitor progress. The logical steps to achieve the target state, aligned to the agency's business and IT strategy, in-flight efforts and congressional mandates, are collaboratively defined. The strategy includes building year-over-year project plans, milestones, risks and value delivery. *The project entails performing an independent assessment of agency's as-is state of data capabilities, strengths and weaknesses producing a collaborative definition of the target state logical design.*	• Current State Assessment • Target State Design Proposal • Data & Analytics Strategy • Implementation Plan (aligned to Fiscal Years)
Open Data Maturity Modeling (ODMM)	An ODMM assessment allows an agency to evaluate its current state of open-data management maturity and understand which improvements are essential to its open data management program at the strategic and tactical levels. *The project entails assessing open-data capabilities across agency programs using an industry framework, providing individual and enterprise-level maturity ratings.*	• ODMM Framework • ODMM Scores at program and enterprise level • Maturity Assessment Findings Summary • Open Data Management Practices Heatmap

♜ STRATEGIC SERVICES (CONT.)

SERVICE	DESCRIPTION	SAMPLE DELIVERABLES
Advanced Analytics Maturity Modeling (AAMM)	An AAMM assessment allows an agency to evaluate its current state of advanced analytics maturity and understand the improvements; essential at strategic and tactical level to its analytics program. *The project entails Assessing advanced analytics capabilities across agency programs using an industry framework and providing summary of findings at the program and enterprise level.*	• AAMM Framework • AAMM Scores at program and enterprise level • Maturity Assessment Findings Summary • Advanced Analytics Practices Heatmap
Data Literacy	Data literacy organically transforms agency to a data-driven organization while educating the workforce in effective use, interpretation of data and scaling of data analytics practice. *The project entails assessing the current state of data literacy, jointly developing organization needs at programs/mission levels, and executing various initiatives to improve overall data literacy.*	• Organization Needs Analysis • Data Literacy Approach • Training Curriculum and Events Planning • Program Schedule and Responsibilities • Program Scorecard • Organization Change Management

⚙ OPERATIONAL SERVICES

SERVICE =	DESCRIPTION	SAMPLE DELIVERABLES
Enterprise Data Mapping	Enterprise data mapping provides transparency for data life-cycle within an agency's ecosystem and can be utilized in data triage, modernization, and data analytics initiatives. *The project entails developing high-level depictions of the end-to-end data life-cycle at the enterprise level, enabling a visualization of both internal and external data interactions.*	• Product Vision • Enterprise Data Map • Business Glossary • Executive Summary
Data Governance	A formal data governance function allows agency to plan, control and monitor data management activities through a well defined organizational structure and set of processes. *The project entails performing initial assessment to understand agency's current data processes and organizational context and establish Data Governance as an authoritative function within existing OCIO/OCDO.*	• Data Governance Steering Committee Charter • Enterprise Data Governance Strategy • Data Governance Stakeholder Engagement Working Group
OCDO (Office of the Chief Data Officer) Foundation	The OCDO foundation allows agency to define OCDO as an authoritative entity while operationalizing through establishment of data steering committee and working groups, formal communication plans, data governance process, and other data management functions at the enterprise level. *The project entails establishing an office of the Chief Data Officer to manage data as strategic asset and to create and implement an overall data management strategy for the agency.*	• Data Governance Steering Committee Charter • OCDO Charter • Federal Data Strategy - Action Plan • Training Material and Reskilling Activities • OCDO Communication Plan • Open Data Strategy • CoP (Communities of Practice) Charter • Change Management Plan

SERVICE	DESCRIPTION	SAMPLE DELIVERABLES
Data Visualization	Data visualization capabilities allow agencies to increase data transparency and program effectiveness through executive-friendly interactive dashboards that provide insights based on cross-cutting agency data. It is a foundational and transformational analytics capability that agencies adopt for promoting data-driven decision making. *The project entails developing end-to-end capabilities including: enterprise-grade data visualization technologies, data engineering, development standards, support services and training.*	• Product Vision • Production Environment • Operationalized Dashboards (Agency Prioritized Use Cases) • Visualizations for Decision-Support Tools • Development Standards and Best Practices • Operations & Maintenance Plan • User Guide • Support Services • Sustainment Plan
Advanced Analytics	Advanced analytics allows agencies to establish an analytics foundation for enterprise adoption and integration into business processes for data-driven decision making. *The project entails developing end- to-end capabilities such as: Enterprise grade AI/ML, GIS modeling, natural language processing, data/text mining, cluster analysis, sentiment analysis, pattern matching, forecasting, semantic analysis, simulation, optimization, predictive analytics, statistical and quantitative analysis, recommendation engines and data engineering development standards, governance, support services and training.*	• Product Vision • Production Environment • Operationalized Advanced Analytics Use Cases • Development Standards and Best Practices • Operations & Maintenance Plan • User Guide • Support Services • Sustainment Plan
Data Asset Inventory and Cataloging	A data asset inventory and catalog allows agencies to understand data dependencies for its mission and automate data location search either by people or by data processes. *The project entails developing a live inventory of key data assets through various sources, capture it in an agreed format and populate available data catalog with relevant metadata.*	• Product Vision • Data Asset Inventory • Data Catalog • User Guide • Sustainment Plan
Data Sharing Platform Design	Having data sharing platform design allows agencies to define a target capability and to achieve it through a sequence of logical steps over time. *The project entails assessing the current state of agency data infrastructure, identifying gaps and pain-points, designing target state architectures (conceptual and logical) for data integration, data sharing, and full-life cycle data management that supports agency vision and is based on industry best practices.*	• Current state assessment • Agency Target Vision • Target State Design • Industry Framework/Design Patterns • Executive Summary

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