Establish an Agency-Wide Data Strategy

The Data and Analytics CoE offers a customized Data and Analytics Strategy service that enables optimal access to agency data. Our approach identifies challenges and areas for improvements in the current state and works collaboratively with the agency to define the vision. Our team employs industry best practices and architectural principles to define the target state. The strategy is delivered with a well-defined implementation plan that includes year-long projects, benefits and risks.

OVERVIEW

To assist agencies in fulfilling mission priorities, such as establishing a data-driven environment and culture, the CoE has developed a framework for a data and analytics strategy and implementation plan. Starting with establishing a solid understanding of the current state of agency’s data landscape and its shortcomings, the strategy:

- Enables a data-driven organization through a trained workforce to maximize the value of data sets
- Supports agency-wide data governance and management that expands the ability to secure, access and organize data
- Results in a technology platform for users and data scientists that enables problem solving and innovation

BENEFITS

We work 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. The CoE generates the following improvements through customized data and analytics strategy services:

- To develop and deploy tools that provide agency-wide impact
- Deliver continuous value through data and analytics maturation
- Craft strategies for managing structured and unstructured mission-critical data across the agency

CASE STUDIES

**Department of Agriculture**

- Established enterprise data and analytics services and developed Mission Area Dashboards to support USDA business decisions with wide adoption across 6 USDA mission areas.
- Developed a playbook to help USDA mission areas improve their data capabilities and maturity

**Consumer Product Safety Commission**

- Developed a data strategy to address data ingestion, processing, and storage challenges.
- Developed an action plan to ensure more efficient usage of enterprise data to more effectively protect the public from injury or death associated with consumer products.

“Driving innovative and collaborative consumer product safety solutions through the rapid delivery of essential, reliable, and relevant data and analytics.”

— The Consumer Product Safety Commission’s Organizational Vision Statement for their Target State
DATA AND ANALYTICS STRATEGY DEVELOPMENT

Agencies need quality data that is discoverable and accessible to drive service delivery and fulfill their missions. We’ll help you get there.

1. CURRENT STATE ASSESSMENT
   - Identify Key Stakeholders
   - Collect Artifacts
   - Attend Systems Briefings and Demos
   - Schedule and Hold Interviews

   - What data do you use?
   - How do you use data?

   - Capture/Develop
     - Stakeholder Interviews
     - Analysis Framework
     - Data & Analytic Themes
     - Capability Heat Map

   OUTCOME
   - Thorough Understanding of Current Data Infrastructure and Challenges

2. TARGET STATE PROPOSAL
   - Next, we’ll help you define the target state of new data and analytics capabilities by looking at...
     - Proven Industry Patterns and Current Industry Trends
     - Agency Aspirations
     - Current Data Themes
     - Statutes and Guidance
     - Organizational Vision
     - Scope of IT Modernization Plan

   - Organizational Design
     - People Roles & Responsibilities
     - Process Organizational Governance and Data Processes
     - Technology Platform Agnostic Design

   OUTCOME
   - Collaboratively Defined Target State Proposal

3. ENTERPRISE-WIDE STRATEGY
   - We’ll provide by-step improvements from current state to target state.

   - Scope
   - Strategic Goals
   - Guiding Principles

   - Phased Approach to Implementing a Data and Analytics Strategy
     - Develops and deploys tools that provide agency-wide impact
     - Delivers continuous value through data and analytics maturation
     - Crafts strategies for managing structured and unstructured mission-critical data across the agency

   OUTCOME
   - Sustainable, Progressive and Well-rounded Action Plan to Migrate from Current State to Target State

4. ENTERPRISE-WIDE IMPLEMENTATION PLAN
   - The Implementation Plan breaks down the Strategy into phased projects.

   - Each phase consists of....
     - Recommended Duration
     - Data Management Activities
     - Infrastructure Projects
     - Business Use Cases
     - Benefits to Users
     - Potential Risks

   - Scope
   - Collect
   - Use
   - Process
   - Archive

   PHASE
   - INITIAL
   - INTERMEDIARY
   - FINAL

   OUTCOME
   - Well-defined Projects that are Aligned to an Agency’s Budgetary Cycles