Digital Transformation of Federal Governments with MicroStrategy 10
The challenge

Entrusted with delivering programs and services to millions of citizens dispersed across wide geographies, federal governments are inherently complex and high-scale operations. Their agencies have huge workforces to manage, a multitude of facilities and assets to maintain, and massive budgets to monitor and regulate. They have massive budgets to monitor and regulate. With all these moving parts, government agencies face the continual challenge of making well-informed decisions, maintaining operational efficiency, and avoiding waste and fraud.

The solution

MicroStrategy 10 enables federal governments to digitally transform operations to increase efficiency, make more-informed decisions, and better engage the public. Its unified platform is ideally suited for government environments, offering governed data capabilities, centralized administration, and robust end-to-end security. And, its comprehensive feature set provides government agencies with a clean migration path toward modernizing internal systems – upgrading legacy investments with advanced analytics, big data scalability, native mobile apps, data discovery, and support for cloud deployment.

**MICROSTRATEGY 10 enables Federal Governments to digitally transform their operations.**
APPLICATIONS FOR FEDERAL GOVERNMENTS
The challenge
Government agencies are massive operations with large, distributed workforces supporting a myriad of programs. Senior officials need tools that consolidate and prioritize status information, increase their situational awareness, and keep their attention focused on the top priorities for achieving agency goals.

The solution
By combining agency data from disparate systems, MicroStrategy empowers senior government officials with a single version of the truth across their organization. Interacting with intuitive visualizations and threshold-coded KPIs, officials can quickly assess the performance of their most critical programs and identify potential areas of concern.

When coupled with the platform’s mobile capabilities, officials can leverage embedded data input features and issue commands or approve actions directly from their mobile devices. They can retain command and control over operations while on the move – and even when they’re offline.

Provide senior leadership with the information needed to address critical issues.
ANALYTICS APPLICATION: IT SYSTEMS MODERNIZATION

The Federal Information Technology Reform Act (FITARA) in the US aims to accelerate the adoption and integration of current technologies. Modernization efforts such as these are challenging public entities around the world to upgrade systems and improve capabilities. But with a heavy reliance on legacy platforms and data systems, agencies cannot simply abandon prior investments while pursuing their public mandates.

Deploy a state-of-the-art BI platform that seamlessly coexists with legacy data systems.

The solution

The MicroStrategy Analytics platform can seamlessly coexist with legacy BI platforms, enabling agencies to preserve prior investments while introducing new, state-of-the-art functionality. MicroStrategy provides scalable performance, advanced analytics, big data, native mobile apps, easy migration to cloud, data discovery, and SDK features – all deployed on top of existing systems.

Its unified platform is ideal for government environments – governed data helps ensure that agencies are working with a single, consistent version of the truth. And with centralized administration, MicroStrategy enables agencies to cost-effectively manage large user populations while enforcing role-based access controls and security privileges.
ANALYTICS APPLICATION:
BUDGET MANAGEMENT

The challenge
Federal budgets are massive, complex, and challenging to decipher. Given the scale and complexity of government spending at the agency or department level, it’s essential to have powerful analytical tools to monitor and manage budgets while streamlining financial reporting to oversight bodies.

The solution
MicroStrategy analytic solutions can deliver intelligence on agency performance versus budgetary goals, empowering senior government officials with real-time information derived from multiple systems. With instant visibility into historical, current, and projected spending trends, key decision makers are empowered to take proactive measures to reprogram funds should they be out of sync with initial budget projections. And because the unified data model helps to ensure that agencies operate off of a single version of the truth, government officials can deliver reports and figures with a high degree of confidence.

Enable agency leadership to reprogram funding that is out of sync with initial projections.
MOBILE APPLICATION: WORKFORCE PROJECTION

The challenge
With thousands of employees, federal agencies are challenged to optimize workforce levels to meet current and projected needs. They are tasked with training and maintaining agency personnel while competing with private sector firms for top talent in their industry.

The solution
MicroStrategy delivers a comprehensive view of an agency’s workforce by blending HR and institutional data from multiple systems – presenting it in a clear and comprehensive manner. Key decision-makers can interact with intuitive visualizations and quickly digest KPIs, allowing them to analyze previously unknown trends and take proactive steps to address them.

In order to help ensure that departments are appropriately staffed to meet their objectives, managers can monitor headcount, tenure, retirement rates, and leadership experience. Additionally, by tracking salary levels, promotion rates, and employee satisfaction levels, they can gain an enhanced understanding of how to attract and retain top talent.

Help ensure workforce levels are optimized to achieve current and future agency objectives.
Federal agencies customarily have extensive investments in facilities, vehicle fleets, equipment, and other assets that are distributed throughout a country or across the globe. Tracking and maintaining assets on this scale is a sizable challenge – assets can be lost, investments may be redundant, and specialized equipment can fall into disrepair due to insufficient maintenance. MicroStrategy solutions enable agencies to obtain a consolidated profile of assets – tracking location, age, value, maintenance history, and operational status. Using advanced predictive modeling tools, asset managers can help optimize their agency’s holdings of buildings, vehicles, equipment, furniture, and other assets while helping to extend their lifespan. With insight on usage and maintenance history, specialists can identify assets with increased risks of failure and take corrective measures proactively. And with visibility into underutilized office space, decision-makers can consolidate facilities or renegotiate lease agreements – reducing costs and streamlining operations.

Help maximize the lifespan of essential agency assets using predictive tools.
The challenge
Regulated government environments need to provide employees, contractors, and visitors with secure identity verification to access physical and logical systems. But administering credentials and ensuring that access privileges are accurate is time-consuming, costly, and challenging to manage.

The solution
Usher provides digital identity credentials to employees, contractors, or other visitors in a regulated environment by utilizing smartphone technology. This solution delivers highly configurable and convenient multi-factor authentication with options for push notifications, biometrics, one-time passwords, face-to-face validation, and Bluetooth proximity. It is compatible with leading physical and logical access controllers and integrates with existing mobile applications through APIs.

This makes it simple and straightforward to introduce and maintain strong, multi-factor authentication across a broad set of systems.

As an additional benefit of this solution, each Usher transaction generates telemetry data that agencies can collect, analyze, and utilize. With new-found insight into access patterns and behaviors, agencies are better equipped to increase security, productivity, and compliance reporting.

Functionality provided:
- Unlock workstations/enterprise applications
- Entrance to facilities/garage
- Time keeping
- Peer-to-peer authentication
- Remote logging with VPN
- Access contractor portal
- Instant authentication of contractor identity
- Security entry/garage
The challenge

In fulfilling their mission, many agencies and departments are required to complete regular on-site inspections for auditing purposes. Whether measuring combat readiness, workplace safety, or regulatory compliance, these field assignments are resource-intensive and time-consuming. Federal agencies are challenged to deploy better tools that maximize inspection team efficiency and success.

The solution

With mobility solutions built on the MicroStrategy platform, auditors and inspectors can increase efficiency, eliminate paperwork, and reduce administrative delays. These workflow applications put analytics and real-time transactional capabilities directly into the hands of field inspectors, so they can take immediate action from any location. This includes completing on-site surveys, submitting photos, and accessing agency information while on the go – and even offline. In addition, these tools can help inspectors prioritize their assignment schedules based on urgent pending visits or geographic proximity.
ANALYTICS APPLICATION: FRAUD DETECTION

The challenge
Fraud can occur across any number of transactions, and in many cases, the last line of defense against such behavior rests with federal agencies. They are responsible for setting and enforcing effective regulations to protect the public. But to successfully identify fraud and prosecute it, federal investigators need powerful tools and analytics that increase their ability to scrutinize and analyze data.

The solution
MicroStrategy empowers analysts to combine and correlate data from multiple systems — helping to maximize their insight into transactions that may include fraud, waste, or abuse. Analysts can apply sophisticated algorithms and leverage predictive tools to calculate the potential likelihood for fraudulent activity. By interacting with intuitive visualizations and threshold-based alerts, they can quickly spot behavior outside the realm of accepted benchmarks to promptly initiate an investigation.

Help uncover cases of false reporting, improper spending, or other fraudulent behavior.
**The challenge**
As government organizations become more reliant on data communications and information systems, they risk becoming even more vulnerable to digital intrusions and security breaches. Agencies are challenged to better monitor and defend against increasingly sophisticated hacking attempts from outside forces.

**The solution**
With MicroStrategy big data capabilities, federal agencies are able to aggregate and process massive volumes of machine-generated data from sensors, networking equipment, IT systems, and other sources. By continuously monitoring automated telemetry data, MicroStrategy can alert users when patterns of behavior fall outside the realm of normal trends – providing early warning of potential intrusions, security breaches, or other unwanted behaviors.
ANSALYS TICS APPLICATION: 
GRANTS MANAGEMENT

The challenge
Many federal agencies allocate funding in the form of grants and vouchers to select population segments, organizations, or state and local governments. Generally, these grants are intended to improve the well-being of citizens through dedicated program investments in education, housing, healthcare, or transportation systems. Federal agencies need comprehensive tools to help track grant distributions and measure the effectiveness of those investments.

The solution
MicroStrategy solutions effectively monitor grant distributions by recipient, category, and location. By tracking data across multiple systems, these solutions provide real-time as well as historical information. Agency personnel can interact with intuitive visualizations to evaluate the geographic disbursement of grant allocations, analyze the distribution of funding by various categories, and drill into historical data for recipients. With this insight, key decision-makers can assess whether investments are effectively accomplishing their stated objectives or if funding is being applied indiscriminately. They can then take this knowledge and apply it when evaluating future grant proposals.

Monitor funding, measure impact, and make better-informed decisions on future allocations.

- Easily examine distribution of grant funds by location
- Analyze the distribution of grant funding by category
- Drill into historical data of grant recipients to evaluate future allocations or requests for increases
MOBILE APPLICATION:
PUBLIC ENGAGEMENT

The challenge
With public sentiment calling for greater transparency in government, many federal bodies face increased pressure to better communicate information to citizens. Agencies now require modern analytical tools to govern data and easily share it with their constituents.

The solution
With MicroStrategy, federal agencies can deliver governed access and visibility into the performance of initiatives and programs. Analytics, visualizations, and dashboards can be directly embedded into public-facing websites.

Leveraging the comprehensive SDK suite, agencies can deploy the power of MicroStrategy while presenting a customized, branded user experience. And by providing self-service access to the public, there is a reduction in the volume of information requests (i.e., Freedom of Information Act) agencies are required to address, freeing up more time for civil servants to accomplish their goals.

Deliver analytical insight to constituents while maintaining the agency’s branded look and feel

Transparency share progress toward agency goals

Use intuitive visualizations that make information easy to understand

Provide greater transparency into program spending and progress toward agency goals.
**The challenge**

Government agencies interact with a myriad of vendors for multiple products and services. These vendors typically require access to information on specific systems for set periods of time. The continual process of issuing new credentials, resolving issues related to usernames and passwords, and revoking access privileges places an unnecessary and excessive burden on federal administrators.

**The solution**

Facility, operations, or IT managers can quickly and easily issue and revoke temporary digital badges for vendors using Usher. Once installed on a vendor’s smartphone, the vendor can use his Usher badges to securely access facilities, services, and meetings during designated periods of time. Users can conveniently authenticate themselves via QR codes, biometrics, push notifications, Bluetooth proximity, or one-time passcodes. And the agency can retain the telemetry data generated with each authentication — providing valuable insight into vendor access patterns and behavior.